# Canon EOS-1 M EOS-1 MHS



English Edition

## The image was removed due to copyright restrictions

## Thank you for purchasing a Canon product.

The EOS-1V is a high-performance autotocus single-lens retlex camera equipped with high-precision Area AF.

Photograph a wide variety of subjects under almost any condition. Let the camera do everything automatically or take full control. In any case, operation is simple with the electronic dials.

Before taking pictures, read this instruction booklet and familiarize yourself with your new camera.

#### ■Symbols



The Caution symbol alerts you to actions to prevent picture-taking problems.



The Note symbol gives additional information for basic camera operation.



The Light bulb symbol offers helpful tips for operating your camera or taking pictures.

Read "Handling Precautions" on page 6 to prevent camera maltunction and damage.

Keep this instruction booklet handy for easy reference.

#### Precautions

- . Before using the camera for an important event, be sure to take test shots to make sure the camera operates properly.
- EOS cameras have a tens mount for dedicated operation (autofocusing, exposure controt, etc.) with EF lenses. Using a non-EF lens with an EOS camera may result in improper camera or lens operation.

Note that the warranty does not cover any camera malfunction or damage occurring with the use of non-Canon accessories.

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## Handling Precautions

#### Camera Care and Storage

- The camera is a precision instrument. Do not drop it or subject it to physical shock.
- (2) This camera is not waterproof and cannot be used underwater. If the camera gets really wet, promptly consult your nearest Canon Service Center. Wipe off any water droplets with a dry cloth. If the camera has been exposed to salty air, wipe with a well-wrung damp cloth.
- (3) Do not leave the camera in places prone to excessive heat such as in a car on a sunny day. Excessive heat can cause the camera to malfunction.
- (4) The camera contains precision electronic circuitry. Never attempt to disassemble the camera.
- (5) Use only a blower brush to blow away dust on the lens, viewfinder eyepiece, focusing screen, film compartment, and mirror. Do not use an organic solvent-containing cleaner to clean the camera body or lens. For stubborn dirt, consult your nearest Canon Service Center.
- (6) The shutter curtains are extremely thin. Use only a blower to clean. Be careful not lo blow air too forcefully on the shutter curtains. The shutter curtains can be easily deformed or damaged. Also, when loading and unloading film, be careful not to touch the shutter curtains.
- (7) Do not louch the electrical contacts with your fingers. Otherwise corrosion may develop on the contacts, resulting in improper camera operation.
- (8) If the camera is not to be used for an extended period, remove the battery. Slore the camera in a well-ventilated, cool, dry place. During the storage period, release the shutter a few limes once in a while.
- (9) Avoid storing the camera in a faboratory, cabinet, etc., where corrosive chemicals are present.
- (10) If the camera has not been used for an extended period or if the camera is to be used for an important event, check the operation of all the camera controls or take it to your nearest Canon Service Center.
- (11) After delaching the lens from the camera, put on the lens caps or put down the lens with the rear end up to avoid scratching the lens surface and electrical contacts.
- (12) Even when the Main Switch is set to < OFF>, a small amount of power is still supplied to the camera's LCD panel. However, this does not affect the number of tilm rolls which can be taken with the battery.

LCD Displays

In time, the camera's LCD panet display and the LCD display in the viewfinder may tade and become difficult to read. If this happens, have it replaced (at cost) by a Canon Service Center.

At low temperatures, the LCD display response may become slower. And at 60°C or higher temperatures, the display may blacken. In either case, the display will return to normal at room temperature.

#### Lithium Batteries

(1) The camera operates on one 2CR5 lithium battery. Check the battery level in the following cases (→page 20):

After replacing the batteries.

· After not using the camera for an extended period.

The shutter stops working.

The camera is being used in a tow-temperature environment.

· You will be shooting an important event.

- (2) Betore installing the batteries, wipe the battery contacts to remove any tingerprints and smudges. This is to prevent faulty connections and corrosion.
- (3) Never disassemble or recharge the battery. Also, never store a battery in high-temperature places or short circuit the battery contacts or toss a battery into a fire.
- (4) Although the battery works well even at low temperatures, battery performance may decline slightly at treezing temperatures. In such a case, keep a spare battery warm in a pocket, etc., and use and warm the batteries alternately.

How Low Battery Levels Affect Camera Operation

Even when (i) blinks or not on the LCD panel, a proper exposure will be obtained as long as the shutter releases. However, when the battery becomes exhausted, tilm advance and auto rewind may not work and (ii) may blink on the LCD panel. After the battery is reptaced with a new one, the tilm advance will resume. Also, pressing the rewind button will resume the tilm rewind operation.

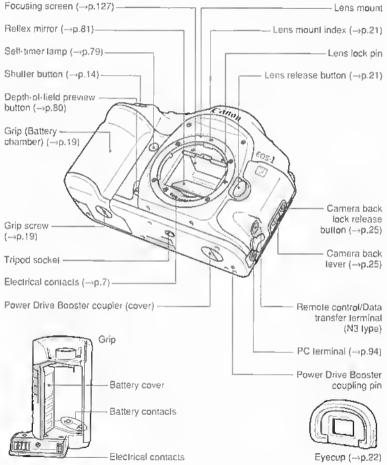
Lens Electrical Contacts

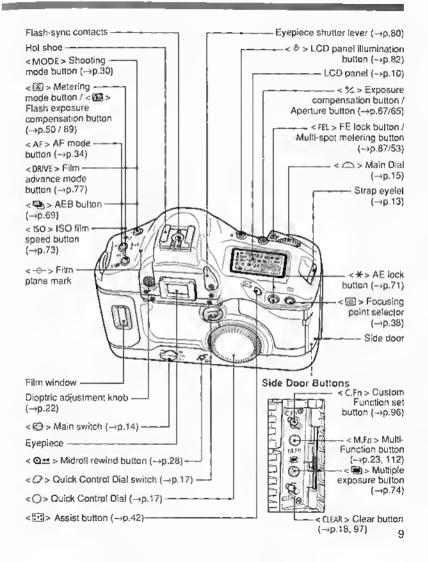
After detaching the lens from the camera, put on the lens caps or put down the lens with the rear end up to avoid scratching the lens surface and electrical contacts.

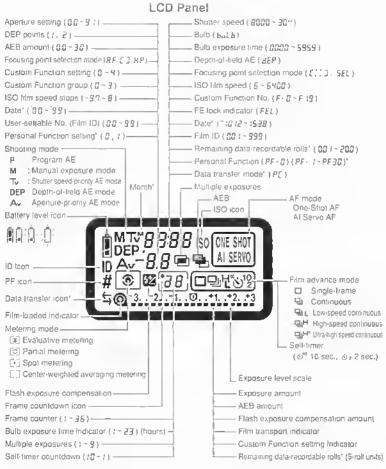


#### Nomenclature

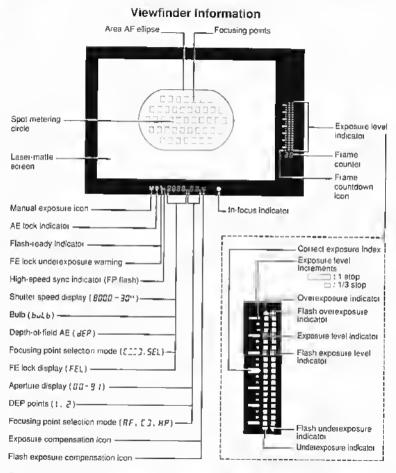
- · Reference page numbers are indicated in parentheses.
- · In the text, camera controls are indicated by their respective icons.







- The LCD panel has color-coded display boxes which contain icons or indications of related camera settings.
- Asterisked items are related to the EOS LINK SOFTWARE ES-E1 (sold separately).



On pages 10 and 11, the LCD panel and viewfinder are shown with all the icons and indications displayed. The items actually displayed differ depending on the camera settings.

#### Conventions Used in this Instruction Booklet

In this booklet, the < △> icon indicates the Main Dial, < ○> is the Quick Control Dial, < ○> is the main switch, and < ②> is the Quick Control Dial switch.



 All the operations described in this booklet assume that the < >> switch is already set to < ON>. Before proceeding with any operation, first turn the < >> switch to < ON> or < • >> >



For < O> dial operations, make sure the < Ø> switch is set to < ON>.



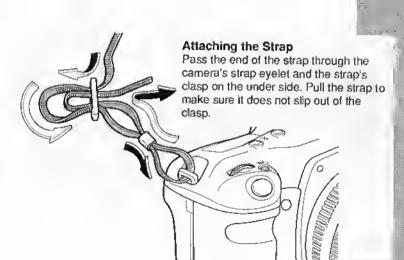
 This symbol is used to indicate that there is a related Custom Function.
 For details, see "Custom Functions" on page 95.

- The camera control icons and markings used in this booklet correspond to the actual icons and markings found on the camera.
   See "Nomenclature" on page 8. Reference page numbers are also stated in parentheses (→p.■)
- In this instruction booklet, a Canon EF 50mm f/1.4 USM lens is used for explaining the procedures.
- The procedures are based on the assumption that the Custom Functions are set to the default settings.
- ( ©6 ) indicates that the function described remains in effect for 6 sec. after the shutter button is released.
- ( ©16 ) indicates that the function described remains in effect for 16 sec. after the shutter button is released.

This chapter explains a few preliminary steps and basic operations of the EOS-1V which you should know before you start taking pictures. If you will be using the camera for the first time, read this chapter first.

If you are familiar with the basic operations of EOS cameras and want to start using the camera right away, see "Quick Start with Program AE" on page 29.

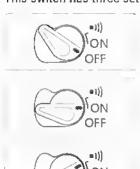
## **Before You Start**



### **Basic Operation**

#### Main Switch

The camera operates only after the  $< \bigcirc >$  switch is turned on. This switch has three settings:



<OFF>: The camera does not operate. Set to this position when not using the camera.

ON> : To turn on the camera, set to this position.

- : This is the same as <ON> except that it also enables the beeper to sound in the following cases;
  - Focus is achieved in One-Shot AF mode.
  - Focus is achieved with manual focus.

#### Shutter Button

You can press the shutter button halfway or all the way. Hold the camera steadily and press the shutter button slowly without any jerking movement. The difference between haltway and complete pressing of the shutter button is explained below. Beginners should practice pressing the shutter button halfway and completely before loading any film.





#### Halfway pressing

When the shutter button is pressed halfway, autotocusing (AF) is activated to focus the subject. Autoexposure (AE) metering is also turned on to set the correct shutter speed and aperture which are displayed in the viewfinder and on the LCD panel for ( ©6 ).

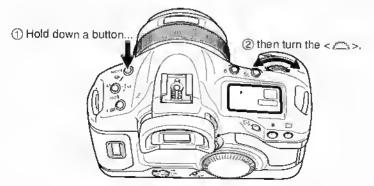
#### Complete pressing

This releases the shutter and takes the picture. After the trame is exposed, the camera advances the tilm automatically.

#### Using the Electronic Dials

#### There are three ways to use the < -> dial:

 Press and hold down a button and then turn the < > dial while looking at the LCD panel. When the button is released, you can take a picture.

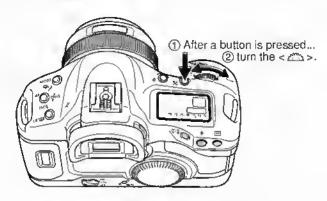


2. After pressing a button, turn the < 2 > dial.

When a button is pressed, its function remains active for 6 or 16 seconds. You then look at the LCD panel and turn the < >> dial during this time. After the function turns off or when you press the shutter button halfway again, the camera will be ready to take a picture.

Buttons which turn on for 6 or 16 seconds are indicated in this instruction booklet with the following icons:

- ( 66 ) : The button's function remains active for 6 seconds after the button is released.
- ( 216 ): The button's function remains active for 16 seconds after the button is released.



Just turn the < > diał.
 While looking at the LCD panel, you can set the shutter speed, aperture, or another setting.

#### There are three ways to use the <>>:

- 1. While holding down a button, turn the < >> dial.
- 2. After pressing and releasing a button, turn the <>> dial.
- 3. Just turn the < >> dial.

Look at the LCD panel to confirm the setting.

To restore the button's function or to ready the camera for picture taking, turn the < 3 > dial.

#### The <0> is used to set the following:

- 1. Real-time exposure compensation
- 2. Aperture
- 3. Flash exposure compensation
- 4. Focusing point selection

#### The <>> dial functions only when the <@ > switch is set to <ON>.



<OFF>: Set to this position to disable the <O>.

<ON> : Set to this position to enable the <O>.

#### Reverting to the Default Settings

With the EOS-1V, you can set the shooting mode, metering mode, and other settings as you wish. You can also use Custom Functions ( $\rightarrow$ p.95) to customize camera controls and functions according to your preterences. These preterences can be reset to the detault settings with the tollowing procedure.

#### Resetting the camera to the detault settings



#### Open the side door and press the <CIFAR > button.

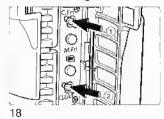
 This will reset the camera to the default settings shown in the table helow

Shooting mode	<p>&gt; Program AE</p>
AF mode	One-Shot AF
Metering mode	Evaluative
Film advance mode	Single
Focusing point selection	Automatic
Multiple exposures	Canceled
Exposure compensation	0
Flash exposure compensation	0
AE lock	Canceled
FE lock	Canceled
AEB	Canceled
Custom Functions	Settings retained
Focusing point registration	Center focusing point



 $\widetilde{\mathbb{W}}$  When the camera is reset, the shooting mode will be set automatically to < p > Program AE (→p.29).

#### Resetting all Custom Functions except C.Fn-0 (→p.98) to the default settings



Open the side door, press the <C.fn> button, then press the <CLEAR > button.



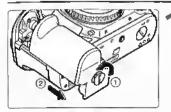
To "C.Fn" is the abbreviation for "Custom" Function."

## Installing the Battery and Checking the Battery Level

#### Installing the Battery

The battery is housed in the camera grip. Remove the grip to Install one 2CR5 lithium battery.

- For the EOS-1V HS, see page 115.

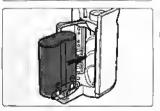


#### Remove the grip.

 Use a coin to turn and loosen the grip screw as shown by the arrow in the figure. Slide off the grip downward.



#### Open the cover.



#### Install the battery.

 Install the battery so that the battery contacts are on the right and bottom.
 Then close the cover.

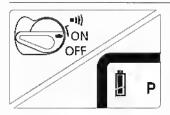
Reattach the grip.

 Reattach the grip to the camera, then turn the grip screw to tighten securely.

Lithium batteries may not be available in certain areas. Carry a spare battery when going on a trip or when you will use many rolls of film.

#### Checking the Battery Level

Check the battery level after replacing the batteries or before using the camera.



#### Turn the $< \Re >$ to < ON >.

 The battery level will be checked automatically and the LCD panel will then display one of the following battery level icons:

: Battery level OK.

: Keep spare battery handy.

: Battery will soon be exhausted.

: Replace with new battery.

#### Battery Life (No. of Rolls)

Temperature	Rolls
At 20°C	75 (50)
At -20°C	18 (12)

- The table shows the number of 24-exposure rotts based on Canon's tests with a new battery and an EF 50mm f/1.4 USM lens, Floures in parentheses are the number of 36-exposure rolls.
- Information on battery life with Power Drive Booster PB-E2 or E1 and Ballery Pack BP-E1 is provided in the respective instruction booklet.



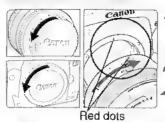
- lacksquare If the < lacksquare > Is set to < ON > and nothing Is displayed on the LCD panel, the battery may have been installed incorrectly. Take out the battery and install correctly. Then check the battery level again.
  - · Since actual shooting conditions may dilfer, the actual number of rolls may be less than the figures in the table.
  - Pressing the shutter button halfway for prolonged periods or frequent. autolocusing without taking any pictures will lower the number of rolls that can he taken.

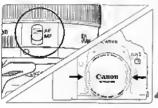


- $^{\square}$   $^{\square}$  When the camera is not to be used, set the < igorimale > to < OFF >. This wilt prevent accidental battery drainage if the shutter button is held down inadvertently.
  - The battery level is indicated each time the < ⇒ is turned on. To check the</li> current battery level, turn on the < >> again.

## Mounting and Detaching a Lens

#### Mounting a Lens





#### Remove the caps.

· Remove the rear lens cap and the body cap by turning them as shown by the arrow.

#### Attach the lens.

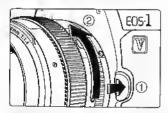
 Align the red dots on the lens and camera and turn the lens as shown. by the arrow until it snaps in place.

#### On the lens, set the focus mode switch to AF.

 If the focus mode switch is set to MF (or M on older lenses), autofocus will not operate.

Remove the front lens cap.

#### **Detaching the Lens**



#### While pressing the lens release button, turn the lens as shown by the arrow.

. Turn the lens until it stops, then remove the lens.

- Be careful not to lose the lens caps and body cap.
  - AF stands for autofocus.
  - · MF or M stands for manual focus.

## Dioptric Adjustment

By adjusting the diopter to suit your vision (with or without eyeglasses), the viewfinder image will look clearer. The camera's adjustable dioptric range is -3 to +1 dot.



#### Remove the eyecup.

 While grasping both sides of the evecup, slide it upward to remove.



#### Turn the dioptric adjustment knob.

- · Turn the knob to the right or left until the focusing point or the center spot metering circle looks sharp in the vlewfinder.
- · The diagram shows the knob set at the standard diopter (-1 dot).

Reattach the eyecup.



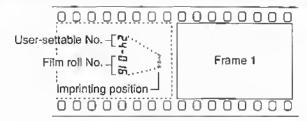
It the viewfinder still does not look sharp after you turn the dioptric adjustment knob, use one of the E-series dioptric adjustment lenses (sold separately), (→p.132)

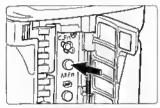
## Film ID Imprinting

A tilm ID No. consisting of a user-settable number (two digits) and a film roll No. (three digits) is imprinted automatically on the tilm leader. The usersettable number can be used to identify which EOS-tV body you used (if you have multiple EOS-tV bodies) to shoot that roll. The film roll No. counts up each time you load a roll of tilm into the camera. This way, you can check the order in which the rolls were exposed.

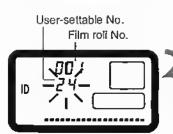
The film ID is also used to match the shooting data recorded by the camera. The shooting data is transferred to a personal computer with the EOS LINK SOFTWARE ES-E1 (sold separately).

Be sure to set the user-settable No. before loading the film. The film ID is imprinted automatically as it advances to frame 1 after loading. You cannot set the user-settable No. once the film has been loaded. You also cannot set the film roll No.



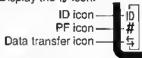


M.Fn: Multi Function. This refers to the EOS-1V's extended functions.



## Press the <M.fn> button to set the film ID setting mode.

 Each time you press the button, the following icons will be displayed in turn on the left side of the LCD panel. Display the ID icon.



- The blinking number is the usersettable No.
- After the film advances to frame 1, the user-settable No. will be displayed and it cannot be changed.

## Turn the < >> diai to set the desired user-settable No.

- You can set any number from DD to 99.
- The film roll No. is set sequentially from BB t to 999. After 999, it will start from BB t again.



#### Press the shutter button halfway.

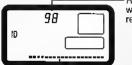
 The LCD panel will return to the normal display and the user-settable No. will be set

#### When the film is loaded, the ID icon will be displayed on the LCD panel while the film ID is being imprinted. $(\rightarrow p.26)$

- ♦ In low temperatures (-10°C), the liquid crystal used for Imprinting the film ID will have a slower response. Therefore, If may take a tew seconds for the imprinting to be completed. To ensure proper film ID imprinting, do not start taking pictures until the ID Icon on the LCD panel turns off. If you take a picture during film ID imprinting, the imprinting will be canceled and the picture will be taken.
  - Film ID imprinting is assured between 45°C and ~10°C. In colder temperatures. the response of the liquid crystal will be extremely slow and the lilm ID might tall. to be imprinted.
  - It a roll of film is rewound in midroll and later loaded into the camera again, the film ID will be imprinted over the previous film ID.
  - Depending on your phototinisher, the film leader where the film ID is imprinted. might not come back with your processed tilm. When submitting the tilm for processing, be sure to mention that you want the film leader returned as well.



- The tilm ID imprinting cannot be turned oft.
  - When you press the < [☑] > button in step 2 on the preceding page, the number of remaining rolls whose shooting data can be stored in the camera's memory will be displayed. This number is used when you use the EOS LINK SOFTWARE ES-E1 (sold separately).



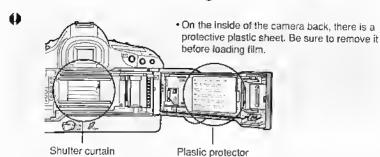
Remaining 36-ex. rolls whose shooling data can be recorded

Indicator of remaining rolls

each bar represents 5 rolls)

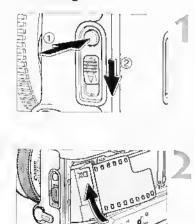
If Dateback DB-E2 (sold separately) is used instead of the standard camera back, there will be no tilm ID imprinting.

## Loading and Unloading Film



 The shutter curtains have been manufactured at very high precision. Never touch them with your fingers. When loading film, do not touch or damage the curtains with your fingers or tilm.

#### Loading Film

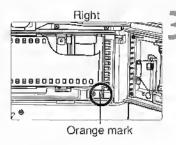


#### Open the camera back.

- Use your thumb to press the camera back lock release button and slide the camera back lever down as shown by the arrow to open the camera back.
- If this is difficult to do with one finger, use one finger to press the lock release button and another finger to slide down the lever.

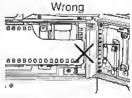
#### Insert the tilm cartridge at an angle as shown in the figure.

· Set the < >> to < ON>.



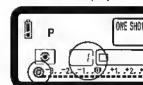
## Pull the edge of the film leader to the orange mark on the camera.

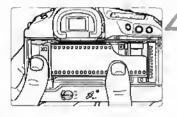
- Hold down the film cartridge while putting out the film leader.
- If the edge of the film leader goes beyond the orange mark, rewind some of the film back into the cartridge.

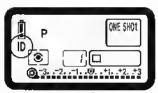


#### Close the camera back.

- After checking that the film leader edge is correctly aligned with the orange mark, close the camera back.
- The film will advance to frame 1 automatically.
- After the film ID Is imprinted, the cartridge icon and frame counter
   " t" will be displayed.







Film 1D being imprinted

- If the film is not loaded properly, the film transport indicator <===> will blink and the shutter will not work. Reload the film property.
  - Infrared film can also be used. (→p.82)
- In hot and humid environments, do not remove the film packaging until you are ready to load the film.
- The frame counter can either count up or count down. (C.Fn-8-1→p.103)

#### Setting the Film Speed

The camera sets the film speed automatically within ISO 25 - 5000 with the film's DX code.



Press the < AF > and < (21) buttons simultaneously.

 The LCD panel will display the ISO icon and the film speed.

- If the film speed displayed does not match the film speed or if the film is not DXcoded, see "Setting the Film Speed Manually" on page 73.
- C.Fn 3 can prevent the ISO film speed from being set automatically with the DX code. (→p.99)

#### **Unloading Film**

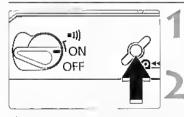
After the tilm's last frame is exposed, the camera rewinds the tilm automatically.



- When the film starts to rewind, the tilm advance and rewind indicator on the LCD panel will "flow" from right to left to indicate that the film is rewinding. The frame counter also counts in reverse.
- The tilm rewind ends automatically. Check that the <@> lcon on the LCD panel is blinking, then remove the film cartridge.

#### **Q**₫₫ Midroll Rewind

To rewind the film in midroll, follow the procedure below.

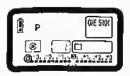


#### Press the < 044 > button.

 The tilm will start rewinding. The subsequent operation will then be the same as normal film rewind.

Take out the film cartridge.

- During film rewind, pressing the < Q≤≤ > button also toggles between highspeed and low-speed (quief) rewind.
- CFn Custom Function C.Fn-1 can alter the rewind speed and method. (->p.98)
- Normally, the entire film leader is rewound inside the film cartridge. Custom Function C.Fn-2 can teave out the film leader after film rewind. (→p.99)

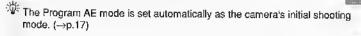


For quick and easy picture taking, use the Program AE mode. This mode sets both the shutter speed and aperture automatically to suit the subject's brightness. Anyone can easily take pictures in this mode. By using the large Area AF ellipse in the viewfinder, it is easy to frame and capture a variety of subjects.

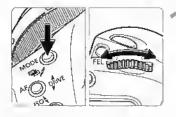
## Quick Start With Program AE



First set the < > switch to < ON>.

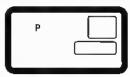




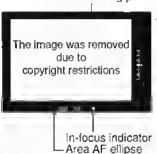


#### Select <P> on the LCD panel.

 While pressing the <MODE> button, turn the <</li>
 > dial to select <P>.
 Then release the <MODE> button.

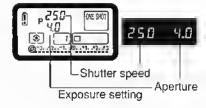


Focusing point



#### Focus the subject.

- Look through the viewfinder and aim the Area AF ellipse over the subject.
   Then press the shutter button halfway.
- The focusing point which achieves focus flashes briefly.
   At the same time, the green in-focus indicator in the viewfinder is displayed.
- The exposure setting will be displayed on the LCD panel and in the viewlinder.
- If the in-focus indicator in the viewfinder blinks, the shutter will lock and a picture cannot be taken. See "When Autofocus Fails (Manual Focusing)" on page 47.



Make sure the exposure setting is not blinking, then press the shutter button completely to take the picture.

#### **Exposure Warnings**





If the shutter speed or aperture blinks, it means a correct exposure cannot be obtained. Although the picture can be taken, it may come out too bright or too dark. For detaits, see "Exposure Warning List" on page 124.



- $\overline{\Box}$  . The focusing point which achieves focus flashes briefly. It the focusing point has been selected manually ( $\rightarrow$ p.38), it will light dimly while it is active for (&6).
  - If automatic focusing point selection (→p.38) has been set, all the focusing points that achieve focus will light.

#### Shifting the Program

In the Program AE < P > mode, you can freely change the shutter speed and aperture combination (program) set by the camera while retaining the same exposure value. This is called shifting the program.

To shift the program, press the shutter button halfway and turn the < dial until the desired shutter speed or aperture is displayed.



The program shift setting is canceled after the picture is taken.

## Holding the Camera

To obtain sharp pictures, hold the camera still to minimize camera shake.



- Firmly grasp the camera grip with your right hand, and press your right elbow lightly against your body.
- · Hold the lens at the bottom with your left hand.
- · Press the camera against your face and look through the viewfinder,
- To maintain a stable stance, place one foot in front of the other instead of lining up both feet.

The camera can automatically sense whether it is in the horizontal or vertical position. The camera's internal detector will make a small sound when detecting the horizontal or vertical position.



The Area AF ellipse has 45 focusing points. By selecting the optimum focusing point, autofocusing can be executed while you maintain the desired subject framing. You can also set the AF mode to suit the subject or intended effect.

## **Using Autofocus (AF)**

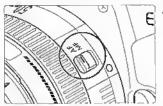




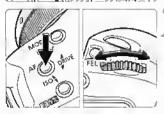
First set the < ⊕ > switch and < @ > switch to < ON >.

#### AF Mode Selection

AF stands for 'autotocus'. The camera has two AF modes: One-Shot AF tor still subjects, and AI Servo AF tor moving subjects. (AI is an abbreviation tor Artiticial Intelligence.) Select the AF mode that suits the subject.

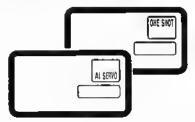


Set the lens focus mode switch to AF.



#### Set the AF mode.

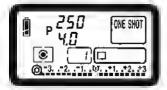
While pressing the camera's < AF> button, turn the < >> dial until the desired AF mode is displayed on the LCD panel. Then release the < AF> button.



#### One-Shot AF for Still Subjects



 In-focus Indicator Focusing point



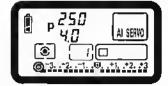
#### Pressing the shutter button halfway activates AF operation and achieves focus once.

- The focusing point which achieves focus flashes briefly and the in-focus indicator ( ) in the viewfinder lights at the same time.
- · With evaluative metering, the exposure setting (shutter speed and aperture) will be set when focus is achieved. The exposure setting and focus will be locked as long as the shutter button is pressed halfway. You can then recompose the shot while retaining the exposure setting and point of focus. (→p.45)



- When the <⇔> switch is set to < •••)>, the beeper will sound when focus is achieved.
  - If focus cannot be achieved, the in-focus indicator ( ) In the viewfinder will blink. If this occurs, a picture cannot be taken even if the shutter button is pressed completely. Reframe the shot and focus again. Also see "When Autofocus Fails (Manual Focusing)\* on page 47.

#### Al Servo AF for Moving Subjects



#### While you press the shutter button halfway, the camera focuses continuously.

- This AF mode suits moving subjects when the focusing distance keeps changing.
- · With predictive AF\*, the camera can also tocus track a subject which steadily approaches or retreats from the camera.
- The exposure settings are set immediately before the picture is taken.



- -When focus is achieved in the Al Servo AF mode, the viewfinder's in-tocus indicator does not light and the beeper does not sound.
  - If the viewfinder's In-tocus indicator blinks, focus cannot be achieved.
  - The focus cannot be locked (except when Custom Function C.Fn-4 is set to 2.)

#### \* About Predictive AF

If the subject approaches or retreats from the camera at a constant rate, the camera tracks the subject and predicts the focusing distance immediately before the picture is taken. This is for obtaining correct tocus at the moment of exposure.

With a manually selected focusing point, the tocusing point will flash in red and tocus track the subject.

When the focusing point selection is automatic, the camera tirst uses the center focusing point to focus. If the subject later moves away from the center focusing point, focus tracking continues as long as the subject is covered by another tocusing point in the Area AF ellipse. The active focusing point does not light.

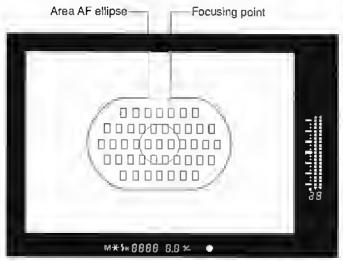
CET With Custom Function C.Fn-4-2, you can lock the focus momentarily by pressing the < x>> button even while the Al Servo AF is active. (→p.100)

C.Fn Custom Function C.Fn-11-2 enables you turn the <0> dial to change the tocusing point to track the subject in the Al Servo AF mode. (→p.105)

## Area AF Ellipse and Focusing Points

The Area AF ellipse is the area where the camera can focus the subject. The Area AF ellipse has 45 focusing points, making autotocus possible over a wide area in the viewfinder. You can concentrate on composing the picture without worrying about whether a focusing point is covering the subject. As long as the subject is within the Area AF ellipse, the camera will focus the subject automatically.

#### Focusing points in the Area AF ellipse



Everything is displayed above. Normally, only part of the above is displayed.

### Focusing Point Selection

The focusing point can be selected automatically or manually.

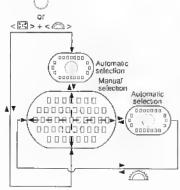
Automatic Selection

From among the 45 focusing points, the camera selects the focusing point automatically to suit the subject.

- Manual Selection (One of three groups of selectable focusing points can be used)
- (1) You can select one of the 45 focusing points manually.
- (2) You can select one of eleven focusing points (C.Fn 13-1/2)
- (3) You can select one of nine focusing points (C.Fn 13-3)
- \* C.Fn-13 enables (2) and (3). To set a Custom Function, see "Selecting and Setting Custom Functions" on page 96.

#### **Basic Procedure for Focusing Point Selection**





To select a focusing point, press the
 button, then turn the <0> or
 dial.

## Selecting a horizontal focusing point

- Press the < > button and turn the < > diat.
- The selected focusing point will shift horizontally.

#### Selecting a vertical focusing point

- Press the <</li>
   > button and turn the <</li>
   > diał.
- The selected focusing point will shift vertically.
- The camera will be ready for picturetaking when the shutter button is pressed halfway or when ( 66) elapses.

#### **Automatic Selection**



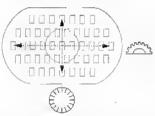
## Press the < > button and turn the < > dial.

- Turn the diat until the viewfinder display is as shown on the left. You can also turn the <0> dial.
- While in the manual selection mode, shifting the focusing point beyond the peripheral focusing point will set the automatic selection mode.

The automatic selection mode can also be set white C.Fn-13-1/2/3 has been set.

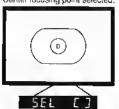
#### Manual Selection

#### (1) Manual selection of 45 focusing points

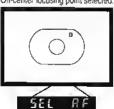


- Select the focusing point as described in "Basic Procedure for Focusing Point Selection."
- When a vertical focusing point is selected, the selection will alternate between one ( ) and double focusing points ( ).

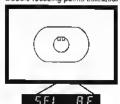
Center focusing point selected.



Off-center focusing point selected.



Double focusing points selected.

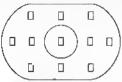




It double tocusing points are selected, tocusing point selection will be automatic with both focusing points. It you then select the left or right tocusing point, only that tocusing point will be active.

## (2) Manual selection limited to 11 focusing points C.Fn-13-1/2 (→p.106)

Since the selectable focusing points are limited to 11, you can better concentrate on framing the subject. Although you select the focusing point in the same way as with the 45 focusing points, having fewer selectable focusing points makes it faster to select a focusing point.  $(\rightarrow p.106)$ 

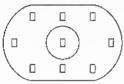


- You can select one of 11 focusing points.
- Select the focusing point as described in "Basic Procedure for Focusing Point Selection."

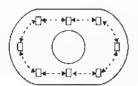
C.Fr. 13·1 enables spot metering to be linked to the selected tocusing point. (→p.52, 106)

## (3) Manual selection limited to 9 focusing points C.Fn-13-3 (→p.106)

The center focusing point and 8 peripheral focusing points are selectable, Turning the Quick Contro! Dial makes it very fast to select one of the 8 peripheral focusing points. (→p.106)



- You can select one of 9 focusing points.
- Select a horizontal focusing point as described in "Basic Procedure for Focusing Point Selection."
   While in the manual selection mode, shifting the focusing point beyond the peripheral focusing point will set the automatic selection mode.



## Selecting a peripheral focusing point

- Turn the <①> to quickly select a peripheral focusing point.

A peripheral focusing point can also be selected with the < > dial alone. (C.Fn·11-2→p.105)



## Selecting the center focusing point

- The center focusing point will be selected.
- When you select spot metering, it will be linked to the selected tocusing point. (→p.52)
- With C.Fn-18, you can select the center focusing point by pressing (and releasing) or holding down the < ☑ > button. (→p.109)

C.Fn The manual selection method can be altered as follows:

- C.Fn-11-1 gives the < ½ > button the function of the < ➡ > button. (→p.105)
- (2) C.Fn·11-2 gives the < ½> button the function of the < ⊞> button. The < ⊕> dial can also be used by itself. (→p.105)
- (3) C.Fn-11-2 can switch manual focusing point selection to automatic selection. (→p.105)
- (4) C.Fn-11-3 gives the <FEL > button the function of the < > button. (→p.105)

## Focusing Point Registration and Switching

By registering the focusing point you often use, you can switch to it instantly. You can register an off-center focusing point which suits your preferred framing or the picture-taking moment. Any of the 45 focusing points can be registered. Only one focusing point can be registered.

#### Registering a Focusing Point



Press the <>> button which remains active for ( <a>6</a>). Then turn the <<a>> or <</a>) dial to select the focusing point to be registered.



While pressing the <€€> button, press the <₹€ > button.

 This registers the selected focusing point.

 When the focusing point is registered, the LCD panel display will differ depending on the selected focusing point. The same display will also appear when the registered focusing point is selected.



When using a Speedlite, first press the <™3> button. It you press the <FEL> button first, flash exposure lock will take effect and the tocusing point selection will be canceled.



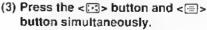
- $ar{f 1}$   $\cdot$  A focusing point can be registered even when C.Fn-13-1/2 has been set to limit the selectable tocusing points to 11.  $(\rightarrow p.106)$ 
  - . When C.Fn 13-3 has been used to limit the selectable focusing points to 9, a focusing point cannot be registered. (→p.106)
  - . "SEL" stands for Select, and "HP" stands for "Home Position,"

#### Switching to the Registered Focusing Point

Normally, you press the <™> button and <™> button simultaneously to switch to the registered focusing point. However, with C.Fn-18-1/2 (→p.109), you can just press the < [35]> button to switch to the registered focusing point. See "Setting Custom Functions" on page 96.



- (1) Press only the < 150 > button to switch to the registered focusing point. C.Fn-18-1 (→109)
- (2) Switch to the registered focusing point only while pressing the <™>. C.Fn-18-2 (→109)
  - When the < [55] > is released, it will return to the original focusing point.



 This is the detault method with C En-18-0



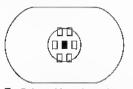
- It no focusing point has been registered, the above steps will switch it to the center tocusing point.
- If C.Fn-18-1/2 and C.Fn-4-1/3 have been set, you can press only the < [35] to switch to the registered tocusing point and start autofocusing at the same time.

### Focusing Point Activation Area C.Fn-17

C.Fn-17 can be set to expand the focusing point's activation area to include more than one active tocusing point.  $(\rightarrow p.108)$ 

#### C.Fn-17-1 Expanding the activation area to 7 points C.Fn-17-1 (→p.108)

This larger activation area makes it easier to tocus subjects moving irregularly.



- : Selected focusing point.
  □ : Focusing points in expanded
- : Focusing points in expanded activation area.

- The expanded focusing point activation area is not displayed in the viewlinder.
- When focus is achieved in the One-Shot AF mode, the selected tocusing point and the focusing point(s) achieving locus will light.

#### C.Fn-17-2 Expanding the activation area to 7 or 13 points automatically C.Fn-17-2 (→p.108)

As shown below, the focusing point activation area expands automatically to 7 or 13 points depending on the lens focal length. AF mode, and the subject's speed in the Al Servo AF mode. This is effective when the subject's movement is unpredictable.

AF Mode	Lens Focal Length	
	Shorter than 300mm	300mm or Longer
One-Shot AF	The activation area does not expand automatically.	The activation area expands by one point.
Al Servo AF	For a slow-moving subject	For a slow-moving subject

<sup>\*</sup> To set the Custom Function, see "Selecting and Setting Custom Functions" on page 96.

## Focusing an Off-Center Subject

To focus a subject not covered by the Area AF ellipse, follow the procedure below. This technique is called focus lock.

Focus lock works only in the One-Shot AF mode. (→p.35)



Aim the focusing point on the subject and press the shutter button halfway to focus.



Keep pressing the shutter button halfway and recompose the picture as desired.

Take the picture.

Evaluative metering is recommended with the One-Shot AF mode which locks the autoexposure setting when focus is achieved.

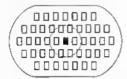


#### AF Sensitivity According to the Lens' Maximum Aperture

The EOS-1V's focusing points are all horizontal-line sensitive. However, depending on the maximum aperture of the lens, certain focusing points can achieve higher AF precision.



(1) With lenses whose maximum aperture is f/2.8 or targer, the focusing points highlighted in the figure become cross-type sensors sensitive to both vertical and horizontal lines. The remaining 38 focusing points are horizontal-line sensitive. The sensor's vertical-line sensitivity is three times higher than the horizontal-line sensitivity. With lenses whose maximum aperture is f/3.5 or darker, all 45 focusing points with be horizontal-line sensitive except with the L-series lenses listed in (2) below.



- (2) With the following Extenders and L-series lenses whose maximum aperture is brighter than f/4, high-precision AF is possible with the center focusing point working as a cross-type sensor. The remaining 44 focusing points are horizontal-line sensitive (except with EF 70-200mm f/2.8L USM + Extender EF 1.4x).
  - · EF 28-80mm f/2.8-4L USM
  - · EF 300mm f/4L USM
  - · EF 300mm f/4L IS USM
  - · EF 500mm f/4L IS USM
  - · EF 600mm f/4L USM
  - · EF 600mm f/4L IS USM
  - · EF 70-200mm f/4L USM
  - · With Extender EF 1.4x:
  - · EF 200mm f/2.8L USM
  - · EF 200mm f/2.8L II USM
  - · EF 300mm I/2.8L USM
  - · EF 300mm f/2.8L IS USM
  - · EF 400mm I/2.8L USM
  - · EF 400mm f/2.8L II USM
  - · EF 400mm f/2.8L IS USM
  - · With Extender EF 2.0x;
  - · EF 135mm f/2L USM
  - · EF 200mm f/1.8L USM



- (3) With the following Extenders and L-series lenses whose maximum aperture is brighter than f/8, the center tocusing point will be sensitive to horizontal lines only. The other tocusing points cannot be used for AF.
  - · With Extender EF 1.4x:
    - EF 400mm f/5.6L USM
    - EF 500mm f/4.5L USM
    - EF 100-400mm f/4.5-5.6L IS USM
  - · With Extender EF 2.0x:
    - EF 300mm f/4 L USM
    - · EF 300mm t/4L IS USM
  - · EF 500mm f/4L IS USM
  - · EF 600mm f/4L USM
  - · EF 600mm f/4L IS USM
  - EF 70-200mm f/4L USM
  - When the < > button is pressed, the display shown on the right appears on the LCD panet.

-о-ЯF

## When Autofocus Fails (Manual Focusing)

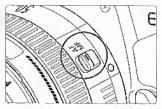
Autotocus can tail to achieve focus (the in-focus indicator blinks) with certain subjects such as the following:

- (a) Low-contrast subjects (blue sky, solid-color walls, etc.).
- (b) Subjects in low light.
- (c) Extremely backlit or reflective subjects (car with a reflective body, etc.).
- (d) Overlapping near and far objects (animal in a cage, etc.).

In such cases, do one of the following:

- Focus an object at the same distance as the subject and lock the tocus before recomposing.
- Set the lens tocus mode switch to MF (or M on older lenses) and tocus manually.
- If locus cannot be achieved with the AF-assist light of a Speedlite or ST-E2, select the center tocusing point. An off-center focusing point might not be able to achieve tocus.

#### Manual Focusing



Set the lens focus mode switch to MF (or M on older lenses).

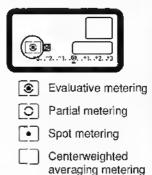
 The AF mode indicator on the LCD. panel turns off.

Focus by turning the lens focusing ring until the subject is in focus in the viewfinder.



- Select the desired locusing point and press the shutter button halfway while manual focusing. When locus is achieved, the selected focusing point witl flash and the in-focus indicator will light.
  - · When the locusing point is selected automatically and the center focusing point achieves focus, it will flash and the in-tocus Indicator will light.
  - With USM (Ultrasonic Motor) lenses (except those not having a distance scale), you can use the focusing ring to fine focus after focus is achieved in the One-Shot AF mode (full-time manual focusing).
- C.Fn For USM tenses with an electronic focusing ring (such as the EF 200mm. 1/1.8L), Custom Function C.Fn-7 can require the lens focus mode switch to be set to MF (or M) before manual focus is enabled. (→p.102)

Evaluative, partial, spot, and centerweighted averaging metering modes are provided. Center spot metering, focusing point-linked spot metering, and multi-spot metering can also be set. Select the metering mode that suits the subject or your photographic intention.

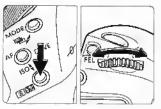


## **Metering Modes**



First set the < > switch to < ON >.

## Selecting a Metering Mode

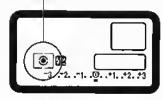


While pressing the <

> button, turn the <

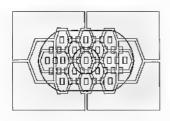
> dial until the desired metering mode icon appears.

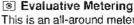
- Evaluative
- Partial
- Spot
- [] Centerweighted averaging



Release the < > button.

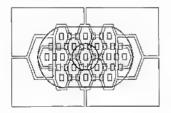
## **Metering Modes**





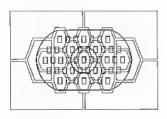
This is an all-around metering mode suited even for backlit subjects. The viewlinder is divided into 21 metering zones to which all the focusing points are linked for evaluative metering. After detecting the main subject's size, position, brightness, background, front and back lightlng, etc., the camera sets the proper exposure.

- During manual focusing, evaluative metering is based on the center focusing point.
- If the subject brightness and background light level are very different (there is a strong backlight or spotlight), use partial metering (를) or spot metering (를) instead.



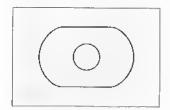
#### Partial Metering

This mode is effective when the background is much brighter than the subject (due to backlighting, etc.). The metering is weighted at the center covering 8.5% of the viewfinder area.



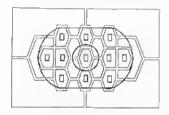
#### Spot Metering

This is tor metering a particular part of the subject or scene. The metering is weighted at the center covering 2.4% of the viewfinder area.



#### □ Centerweighted Averaging Metering

The metering is weighted at the center and then averaged for the entire scene.



#### Focusing Point-Linked Spot Metering

To make focusing point selection faster, the selectable focusing points can be limited to 11 (C.Fn-13-1) or 9 (C.Fn-13-3). When C.Fn-13-1 or C.Fn-13-3 has been set, the manually-selected focusing point is linked to 2.4% spot metering. (→p.40, 41, 106)

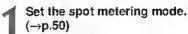
During continuous shooting in the spot metering mode, AE lock is sel automatically without the < \*> indicator displayed in the viewfinder.

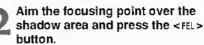
C.Fn-13-2 can limit the manually-selectable focusing points to only 11 while keeping the spot metering linked to the center focusing point. (→p.40, 106)

#### **Multi-Spot Metering**

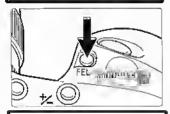
Multiple spot meter readings can be taken and then averaged automatically. As shown in the sample below, you can take multiple spot meter readings.

The image was removed due to copyright restrictions

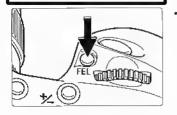




 This obtains the first spot meter reading.



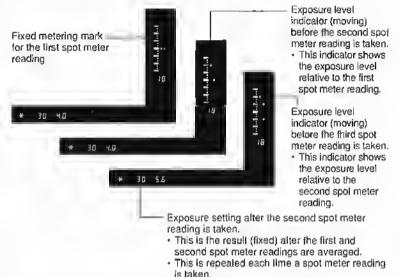
The image was removed due to copyright restrictions



Aim the focusing point over a midtone area and press the <FEL> button once. Then do the same for a highlight area.

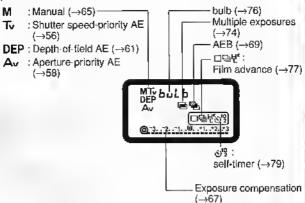
• Each time a spot meter reading is laken, the spot meter readings taken so tar are averaged and the result (shutter speed and aperture) is displayed below the viewfinder. See the figure in "Multi-Spot Metering Display" on the next page. On the exposure compensation scale on the right of the viewfinder, the exposure level indicator moves around in real-time to indicate the spot meter reading's current exposure level. The three spot meter readings are also indicated on the scale with a fixed (non-moving) metering mark.

#### Multi-Spot Metering Display



- The exposure settings obtained with multi-spot meter readings are canceled in the following cases:
- 1. After taking the last spot meter reading, 16 seconds elapse.
- 2. You press the <3>, <MODE>, or < AF> button.
- 3. After taking the picture, you take your finger off the shutter button.
  - Up to eight spot mefer readings can be taken for one picture. If you press the <FEL> button to try and take a ninth spot meter reading, no spof meter reading will register.
- Mulfi-spof metering can be fixed at the center or linked to the active focusing point with C.Fn-13 (→p.106).

You can set the shooting mode that best suits the subject or your objective. You can also easily achieve various photographic effects.



## **Shooting Modes**





First set the < > switch to < ON>. If necessary, also set the < > switch to < ON>.

### Tv Shutter Speed-Priority AE

In this mode, you set the desired shutter speed and the camera sets the aperture automatically to suit the subject brightness.

A fast shutter speed can freeze motion, and a slow shutter speed can achieve a blurred ettect.

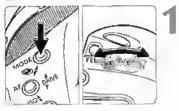
\* Tv is an abbreviation for Time value.

The image was removed due to copyright restrictions

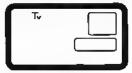
The image was removed due to copyright restrictions

With a tast shutter speed

With a slow shutter speed

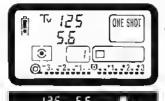


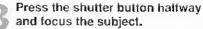
While pressing the <MODE>
button, turn the <△> dial until
To appears on the LCD panel.
Then release the <MODE> button.



FEL

Turn the < >> dlal to set the desired shutter speed.





 The shutter speed and aperture will be displayed.



Take the picture.

 As long as the aperture display is not blinking, a correct exposure will be obtained.

#### Exposure Warnings

If the lens' maximum aperture (smallest f-number like t/1.4) blinks, it indicates underexposure.
 Turn the < 20% > dial to set a slower shutter speed until the aperture display stops blinking.



 If the lens' minimum aperture (largest f-number like t/22) blinks, it indicates overexposure. Turn the < (22) dial to set a faster shutter speed until the aperture display stops blinking.



Inheliatelerie

- C.Fn-16 enables the satety shift feature. ( $\leftrightarrow$ 108)
  In the shulter speed-priority AE mode, it a correct exposure cannot be obtained with any aperture set by the camera, the camera automatically sets a taster or slower shutter speed. This feature is called safety shift.
- C.Fn-6 enables the shutter speed to be set in full-stop or 1/2-stop increments instead of the standard 1/3-stop increments. (→102)

### Av Aperture-Priority AE

In this mode, you set the desired aperture and the camera sets the shutter speed automatically to suit the subject brightness.

The larger the aperture (smaller f-number) the more blurred the background will become. This effect is suited for portraits. The smaller the aperture (larger f-number), the clearer the focus will be for both near and far objects.

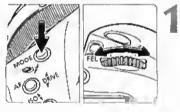
\* Av is an abbreviation for Aperture value.

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The image was removed due to copyright restrictions

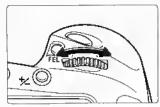
With a large aperture

With a small aperture



While pressing the <MODE>
button, turn the <a>> dial until
Av appears on the LCD panel.
Then release the <MODE> button.





Turn the < >> dial to set the desired aperture.

## Press the shutter button halfway and focus the subject.

 The shutter speed and aperture will be displayed.



#### Take the picture.

- As long as the shutter speed is not blinking, a correct exposure will be obtained.
- If the shutter speed is slower than the reciprocal of the lens focal length (i.e. 1/200 for a 200mm lens), camera shake may cause a blurred picture.

#### **Exposure Warnings**

- If the 30" shutter speed blinks, it indicates underexposure.

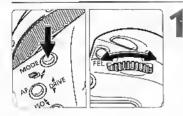
  Turn the < > > dial to set a larger aperture (smaller f-number) until the shutter speed stops blinking.

  If the 8000 shutter speed blinks, it indicates overexposure. Turn the < > > dial to set a smaller aperture (larger f-number) until the shutter speed stops blinking.
- C.Fn-16 enables the safety shift feature. (->p.108)
  If a correct exposure cannot be obtained in the aperture-priority AE mode with any shutter speed set by the camera, the cantera automatically sets a larger or smaller aperture. This teature is called safety shift.
- C.Fn-6 enables the aperture to be set in full-stop or 1/2-stop increments instead of the standard 1/3-stop increments, (~>p.102)
- For aperture-priority AE, C.Fn-5-2/3 enables the aperture to be set with the camera even while the tens is detached. (→p.101)

### DEP Depth-of-field AE

This mode is effective when you want a wide depth of field to keep everything in focus near and far. The optimum point of focus and aperture to attain the required depth of field are set automatically along with the shutter speed.

- To use this mode, the lens focus mode switch must be set to AF.



While pressing the <MODE> button, turn the <a>> dial until DEP appears on the LCD panel. Then release the <MODE> button.



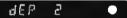


Press the < > button and turn the < > or < > dial to select the desired focusing point.

The image was removed due to copyright restrictions

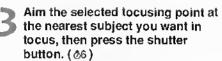


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125 1



- The in-focus indicator lights and *dEP 1* is displayed.
- If two focusing points are active (-p.43), both focusing points will be used for depth-of-field AE.

Use the same tocusing point to aim at the tarthest subject you want in focus and press the shutter button. (@6)

- The in-focus indicator lights and dEP 2 is displayed.
- You can also reverse the above two steps.

■ Compose the picture and press the shutter button halfway to check that the shutter speed and aperture are not blinking. ( ⊗6 )

- The point of focus is set between the two dEP points. The aperture required to achieve the desired depth of field and a suitable shutter speed are set automatically.
- If you release the shutter button, dEP and the aperture will be displayed.
- The exposure setting is set when the picture is taken.



Take the picture.

#### **Exposure Warnings**

- It the aperture blinks, the desired depth of field cannot be obtained. (However, you can still take the picture and obtain a proper exposure.) Use a wide-angle lens or move away from the subject and repeat steps 3 to 5.
- the 30" shutter speed and the lens' maximum aperture (smallest t-number) blink, the scene is too dark and the plcture cannot be taken in the depth-of-tield AE mode.
- If the 8000 shutter speed and the tens' minimum aperture (largest f-number) blink, the scene is too bright. Use a neutral density (ND) filter to reduce the amount of tight entering the camera.







- When using a zoom lens, do not change the zoom focal length while using the depth-of-tield AE mode.
  - After setting one or two dEP points, do not change the active tocusing point.
     Doing so will cancel the dEP point(s) that has been set and you will have to start over with the newly selected tocusing point.
  - If flash is used with the depth-ot-field AE mode, the result will be the same as using Program AE with tlash.
  - If depth-of-field AE is used with a lens having a tocusing limiting switch (like the EF 300mm f/2.8 IS USM lens), set the switch to the maximum locusing distance range.



- lacksquare . With automatic tocusing point selection in the depth-ot-tield AE mode, only the center tocusing point will be used for tocusing.
  - · If a slow shutter speed has been set, use a tripod to prevent camera shake.
  - · If six seconds elapse before you complete the DEP procedure, the DEP point(s) set so far will be canceled. In such a case, you must start over again.
  - To cancet the depth-ot-field AE mode midway, press the <MODE > button, < AF > button, or < 3 > button,

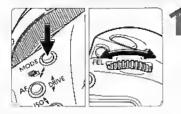


- · To turther Increase the depth ot tield, use a wide-angle lens.
  - · Setting dEP points 1 and 2 at the same point on the subject will make the depth of tield shallow. The toreground and background will then be blurred, making the subject stand out. Using a telephoto lens enhances this effect.

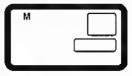
### M Manual Exposure

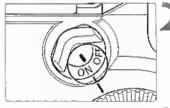
In this mode, you set both the shutter speed and aperture for total exposure control. You can refer to the exposure level indicator in the viewfinder or use a handheld exposure meter to determine the shutter speed and aperture.

#### Using the Built-in Exposure Meter



While pressing the <MODE > button, turn the < >> dial until M appears on the LCD panel. Then release the <MODE > button.





Set the <@ > switch to <ON>.

- Turn the < >> dial to set the shutter speed and turn the <>> dial to set the aperture.
  - To set the aperture, you can also press the < ½ > button and turn the < △ > dial.

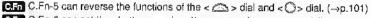


Exposure level indicator



#### Focus the subject.

- The shutter speed and aperture will be displayed.
- On the right of the viewfinder, the exposure level Indicator indicates the current exposure level relative to the correct exposure index.
- Refer to the exposure level indicator and set the shutter speed and aperture to obtain the desired exposure level.
- Take the picture,



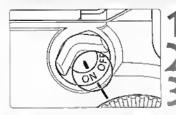
C.Fn-6 can set the shutter speed and/or aperture increments to full stops or half stops instead of the standard 1/3 stops. (→p.102)

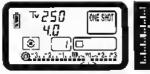
C.Fn-5-2/3 enables the aperture to be set manually even when the lens has been detached. (->p.101)

### **Setting Exposure Compensation**

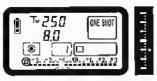
Exposure compensation is used to alter the camera's standard exposure setting. To set the exposure compensation amount, you can either turn the <>> dial while looking through the viewfinder or press the < ±<> button and turn the <<>> dial while looking at the LCD panel. The exposure compensation amount can be set up to ±3 stops in 1/3-stop increments.

#### Exposure Compensation with the <>> Dial





Overexposure.



Underexposure.

Set the < @ > switch to < ON >.

Focus the subject and check the exposure level.

Turn the <>> dial to set the desired exposure compensation amount.

- > The exposure compensation icon (★) and the exposure level indicator (□) will be displayed in the viewfinder, while the exposure level indicator (♣) will be displayed on the LCD panel.
- Turn the <>> dlal while pressing the shutter button halfway or within ( \$\pi\$6 ) after releasing the shutter button.
- On the viewfinder's exposure level scale, any position above the correct exposure index indicates overexposure and any position below it Indicates underexposure. On the LCD panel, any position on the + side indicates overexposure and any position on the side Indicates underexposure.
- To cancel exposure compensation, set the amount to the correct exposure index ( □ or ♥).

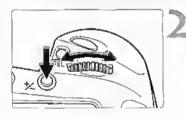
Take the picture.

- Custom Function C.Fn-6-2 enables the exposure compensation amount to be set in 1/2-stop increments. (→p.102)
- The exposure compensation amount's 1/2-stop increments enabled with C.Fn-6 are indicated in the viewfinder and on the LCD panel as shown below.



-1 1/2 exposure compensation

#### Exposure Compensation with the < 1/2 > Button and < 2/2 > Dial



Press the < 1/2 > button and turn < 1/2 > dial within ( 66 ) to set the desired exposure compensation amount.



- The exposure compensation amount will remain in effect even after the < ⇔ > switch is set to < OFF >.
  - To prevent the <<p> dial trom turning inadvertently and changing the exposure compensation amount, set the <<p> > switch to < OFF >.

### Autoexposure Bracketing

With autoexposure bracketing, the camera automatically changes the exposure level within the set range (up to ±3 stops in 1/3-stop increments) for three successive frames. The three bracketed shots are exposed in the following sequence: correct exposure, underexposure, and overexposure. The current film advance mode (see "Switching the Film Advance Mode" on page 77) is used during the bracketing.

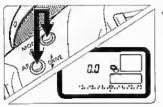
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The image was removed due to copyright restrictions

Correct exposure (0)

Underexposure (-1/3 stop) Overexposure (+1/3 stop)



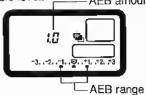
Press the <MODE > button and < AF> button simultaneously.

 The AEB icon appears on the LCD panel.



Turn the </a> dial to set the desired bracketing amount.

 On the LCD panel, the bracketing amount is indicated in stops and the bracketing range is shown on the exposure compensation scale. The display shows a bracketing amount of ±1 stop centering on the correct exposure level. AEB amount





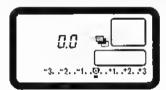
Display for ±1-slop AEB.

#### Take the pictures.

- The current film advance mode will be used
- The viewfinder's exposure level scale will show the respective bracketing amount as each bracketed shot is taken
- In the continuous shooting mode, holding down the shutter button will take all three bracketed shots continuously. The shooting will then stop automatically.
- When AFR is used with the selftimer, the three bracketed shots will be taken in succession after the 2- or 10-second self-timer delay.



- To indicate that AEB is in progress, the AEB icon on the LCD panel and \* indicator in the viewlinder will blink until all the bracketed shots are taken.
  - · In the manual exposure mode, AEB will proceed by changing the shutter speed.



#### Canceling AEB

- · Follow steps 1 and 2 to set the AEB lo BB.
- · AEB will also be canceled by changing lenses, rewinding the film, replacing the film, setting a bulb exposure, having a flash ready Speedlite, pressing the < CIEAR > button, and setting the < >> switch 10 < OFF >.



- No viewlinder information will be displayed during continuous shooting of the bracketed shots.
  - · After setting the AEB amount, you can also set exposure compensation to oblain underexposed or overexposed bracketing. See "Setting Exposure Compensation\* on page 67.
  - AEB cannot be used together with bulb exposures or flash.
  - Il mirror lockup has been sel with C.Fn-12 and AEB is used, single-frame shooting. will take effect even if the film advance mode is set to continuous shooting.

- C.Fn C.Fn 6-2 enables the AEB amount to be set in 1/2-stop increments. (→p.102)
- C.Fn-9-2/3 can change the bracketing sequence to underexposure, correct exposure, and overexposure. (→p.104)
- C.Fn-9-1/3 can prevent AEB from being canceled by changing lenses, rewinding the film, replacing the film, and setting the < ♥> > switch to < OFF >. (→p.104)
- C.Fn 5-1 can have the aperture change instead of the shutter speed during AEB in the manual exposure mode. ( $\rightarrow$ p.101)

#### **AE Lock**

AE lock enables you to lock the exposure at a different place from the point of focus. After locking the exposure, you can recompose the shot while maintaining the desired exposure level. This feature is useful for backlit and spotlighted subjects.





# Focus at the point where you want to lock the exposure reading.

 The exposure setting (shutter speed and aperture) will be displayed on the LCD panel and in the viewfinder.

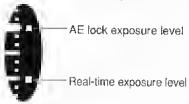
#### Press the < \*> button ( 66 ).

- \* Hights in the viewfinder to indicate that the exposure setting is locked.
- Each time you press the <\*> button,
   it locks the current exposure setting.
- AE lock cancels 6 seconds after X-lights in the viewfinder or it you press
  the < AF > button, < 3 > button, or
   MODE > button.



## Recompose the shot and take the picture.

 When the shot is recomposed, the exposure level indicator will show the new exposure level in real-time relative to the locked exposure level.

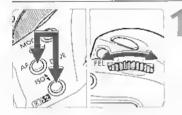


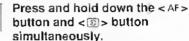
- Partial or spot melering is recommended for AE lock over a specific point. (→p.51)
- If One-Shot AF and evaluative metering are set, pressing the shutter button halfway to focus will automatically set AE lock at the same time.
- C.Fn·4-1 enables AE lock with the shutter button pressed halfway (instead of the < ★ > button) and locusing with the < ★ > button. (→p.100)

# Setting the Film Speed Manually

If the film is not DX-coded or if you want to set a different ISO film speed, you can load the film and set the ISO tilm speed manually.

. The ISO film speed can be set manually from 6 to 6400.





. The ISO icon and the currently-set film speed will be displayed.



Difference relative to the correct ISO film speed

Manually-set ISO film speed



This sample display indicates that ISO 400 film has been manually set to ISO 800. This is also displayed when the film starts rewinding and until the film cartridge is taken out.

Turn the < >> dial until the desired film speed is displayed on the LCD panel.

 With DX-coded film, the difference in. stops relative to the correct ISO speed is displayed.

Release the two buttons.

. The film speed will then be set.



The manually-set film speed will be canceled the next time DX-coded film is loaded.

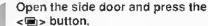
CFn C.Fn-3 can prevent the manually-set film speed from being canceled the next time DX-coded film is loaded. (→p.99)



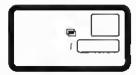
# Multiple Exposure

By not advancing the tilm, a single trame can be exposed multiple times. Up to nine multiple exposures can be set for one frame. Multiple exposures can be taken in any shooting mode.





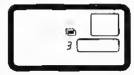
 The <
</li>
 The LCD panel and the trame counter displays





### Turn the < /> </> > dial to set the desired number of multiple exposures.

· The camera will be ready to take multiple exposures when you press the shutter button halfway or after ( 66 ) elapse.



Set for 3 multiple exposures.

### Set the shooting mode and take the pictures.

 Atter all the multiple exposures are taken, the film advances to the next trame and the multiple exposure setting is canceled automatically.



If any of the film's first or last few trames is used for multiple exposures, the exposures may not atign exactly due to film advance characteristics.



- •While multiple exposures are being taken, the multiple exposure icon < > blinks.
  - To cancel the multiple exposure setting before taking multiple exposures, set the number of multiple exposures to 1.
  - · To cancel the multiple exposure setting after you start taking multiple exposures, toltow steps 1 and 2 to set the number of multiple exposures blank.



When taking multiple exposures, you should underexpose each multiple exposure by the amounts shown below. To underexpose, see "Setting Exposure Compensation" on page 67.

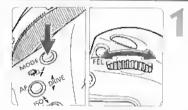
#### Exposure Compensation Guide for Multiple Exposures

No. of Multiple Exposures	2	3	4
Underexposure Amount of Each Exposure	-1.0 stop	-1.5 stop	-2.0 stop

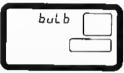
These exposure compensation amounts are only general guidelines. The optimum amount depends on the scene. Experiment to find the optimum compensation amount.

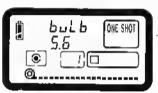
# **Bulb Exposures**

When bulb is set, the film is exposed during the time you keep pressing the shutter button completely. Bulb is useful when a long exposure is necessary for capturing night scenes, fireworks, the night sky, etc.

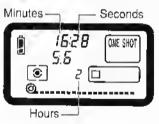


While pressing the <MODE> button, turn the < $\triangle$ > dial until bubb is displayed. Then release the <MODE> button.





Set the <@> switch to <ON>, then turn the < >> (or <>>) dial to set the desired aperture.



Start the bulb exposure.

- The elapsed exposure time will be displayed on the LCD panel.
- The bulb exposure will continue while you keep pressing the shutter button completely.
- Bulb exposures consume almost no battery power.
- Connecting the separately-sold Remote Switch RS-80N3 (with shutter release lock) or the Timer Remote Controller TC-80N3 to the camera's remote control terminal will free you from pressing the shutter button during bulb exposures.

# Single-Frame and Continuous Shooting

The film advance mode can be set to single-trame shooting or continuous shooting.

Single-frame Shooting < □ >

After a picture is taken, the film advances by one frame automatically.

Continuous Shooting < □ >

The pictures are taken continuously while you hold down the shutter button completely.



### Press the < MODE > button and <®> button simultaneously.

 The current film advance mode is: displayed.





#### Turn the < >> dial to set the desired film advance mode.

 When the desired film advance mode is selected, release the buttons.



- The shooting speeds in the table on the next page apply when the shutter speed is 1/250 sec. or taster.
  - · With One Shot AF and evaluative metering set, if you stop continuous shooting by returning the shutter button to the halfway position, you can maintain the AE lock for the next time you start shooting.

# When □, 및, 및, 및H, or 및H<sup>®</sup> Blinks

If the battery power drops in cold temperatures or the film advance operation becomes slow, it means that the camera is trying to provide film advance power rather than speed. This feature is called automatic film advance fransmission. If this is activated, one of the film advance icons ( , , , , , , , , , , , ) will blink on the LCD panel.

This feature is canceled when you press the <MODE> bufton and <®> button simultaneously or when you replace the film or battery. If this feature is in effect, check the battery power (→p.20) and follow the respective countermeasures.

- If film advance or rewind stops midway, ① will bfink on the LCD panel.
   When the battery is replaced with a new one, film advance will resume.
   Or, to resume film rewind, press the < ②± > button.
- · In cold femperatures, warm the battery in your pocket, etc., before using.

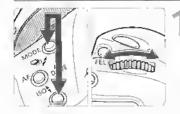
# Maximum Continuous Shooting Rates in frames/sec. (approx.)

Configuration	Power Source	Film Advance Mode	One-Shot AF + Manual Focus	Al Servo AF
EOS-1V	2CR5 lithium battery			
EOS-1V + BP-E1	Size-AA alkaline batteries x 4		3.5	3
EQS-1V + PB-E2 (EQS-1V HS)	Nickel Hydride Pack NP-E2	□』H <sup>«</sup>	10	9
(EO2-14 U2)	Size AA alkaline batteries x 8	Q <sub>H</sub>	7	7
		밀ᆫ	3	3
		□ <sub>H</sub>	6	5
	Datteries x o	밀ᇿ	3	3
EOS-1V + Power Drive	Size-AA alkaline	PН	6	5
Booster E1	batteries x 8	밀ᆫ	3	3

No viewlinder information is displayed during continuous shooting.

# Self-timer Operation

The self-timer can be set to either a 2-second or 10-second delay. When using the self-timer, you should mount the camera on a tripod.



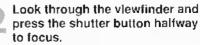
While pressing the <MODE> button and <®> button, turn the < >> dial and set the desired self-timer delay time.



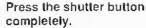
ు": 10-second delay

Ø2:

2-second delay



 Check that the in-focus indicator and exposure setting are displayed.



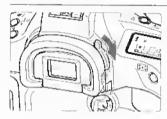
- The self-timer lamp will start blinking to indicate that the self-timer has started. The lamp blinks faster during the last two seconds before the picture is taken.
- To cancel the self-timer after it starts, set the <⊕> switch to <OFF>.



- When using the sell-timer to photograph yourself only, first lock the focus (→p.45) on an object at about the same distance where you will be.
- The 2-second delay is effective for close-ups or photo duplicating work to prevent camera shake (camera movement while the shutter button is pressed).
- Do not stand in IronI of the camera when you press the shutter button to start the sell-timer. Doing so will throw off the locus.

### Using the Eyepiece Shutter

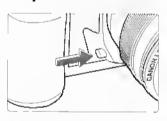
If you fake a picture without looking through the viewfinder, stray light may enter the eyepiece and affect the exposure. To prevent this, use the built in eyepiece shuffer before taking the picture.



To cover the eyepiece with the eyepiece shutter, turn the lever as shown by the arrow.

To open the eyepiece shutter, turn the lever in the opposite direction.

# Depth-of-field Preview



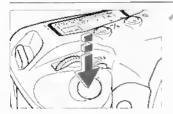
The depth of field is the range of acceptable focus in front of and behind the point of focus. The depth of field changes depending on the aperture. Press the depth-of-field preview button to stop down the aperture and preview this range of acceptable focus.

- 7
- · Pressing the depth-of-field preview button also sets AE lock.
- · The depth-of-field preview button does not function during AF operation.

# Mirror Lockup

Mirror lockup is enabled with C.Fn-12 (→p.106). This prevents mirrorcaused vibrations which may blur the image during close-ups or when a super telephoto lens is used. To set this Custom Function, see "Selecting and Setting a Custom Functions" on page 96. When mirror lockup is set, the camera operates as follows.

· When using mirror lockup, Remote Switch RS-80N3 (sold separately) is recommended.



#### Press the shutter button. completely.

 The mirror locks up, and after 30 seconds, it will go back down automatically. Pressing the shutter button completely again locks up the mirror again.



### Release the shutter button and press the shutter button completely again to take the picture.

 The oicture is taken and then the mirror goes back down.

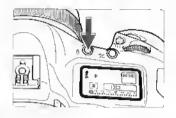


- 💔 In very bright light such as at the beach or ski ground on a sunny day, take the picture promptly after mirror lockup.
  - · During mirror lockup, do not point the camera lens at the sun. The sun's heat can scorch and damage the shutter curtains.
  - · If you use mirror lockup with the self-timer for a bulb exposure, there will be a shutter release sound when you release the shutter button during self-limer operation. This is not the sound of the shutter release.



- During mirror lockup, the film advance mode will be single-frame shooting regardless of the current lilm advance mode.
  - It mirror lockup is used with the sell-timer, pressing the shutter button completely the first time will lock up the mirror and release the shutter 10 seconds or 2 seconds later (depending on the delay time selected).

# LCD Panel Illumination

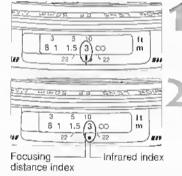


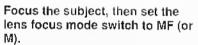
The LCD panel is provided with illumination. The LCD panel illumination button  $< \delta >$  turns the illumination on ( 86 ) and off. It makes the LCD panel readable in darkness. The LCD panel illumination turns off 2 seconds after a picture is taken. For a bulb exposure, the illumination turns off when the bulb exposure starts.



Pressing any button while the LCD panel is illuminated prolongs the illumination,

# Using B/W Infrared Film





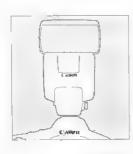
Let's say you will focus at 3 m.

#### Use the infrared Index to adjust the distance.

· Turn the focusing ring so that the focusing distance is aligned with the infrared index. If it is 3 m, align the "3" with the infrared index



- Use a lens which provides an infrared index. With L-series lenses which do not have an infrared index, there is no need to compensate for infrared film.
  - · It is recommended that you also take back up pictures at slightly nearer and farther distances centering on the infrared index's distance.
  - Also refer to the intrared lilm's instructions.
  - · Using a red filter enhances the infrared film's effects.
  - The focusing distance need not be adjusted with color infrared tilm.



An EOS-dedicated EX-series or EZ-series Speedlite makes flash photography as easy as any AE mode. EX-series Speedlites enable E-TTL autoflash photography as well as E-TTL wireless autoflash photography with multiple Speedlites. Speedlite 550EX will be used to describe the flash photography features provided with the EOS-1V. For details on Speedlite 550EX, see the Instructions booklet that comes with it.

# Flash Photography





First set the <⊖> switch to <ON>. If necessary, also set the <⊕> switch to <ON>.

# Flash Photography with Speedlite 550EX

With Speedlite 550EX, flash photography is easy as any AE mode, and you can use the following features:

#### E-TTL autoflash

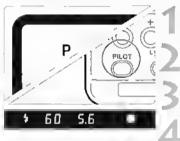
With E-TTL autoflash (preflash evaluative metering), optimum flash exposure is obtained for the subject in focus. In the aperture priority AE mode, a slow sync speed is set automatically in low-light situations to obtain a natural looking. balanced exposure between the subject and background.

The image was removed due to copyright restrictions

- High-Speed Sync (FP Flash) High-speed sync (FP or focal-plane flash) enables flash synchronization with all shutter speeds from 30 sec. to 1/8000 sec.
- FE (Flash Exposure) Lock FE lock obtains and locks the correct flash exposure for any part of the subject. This is the flash equivalent of AE lock.
- Flash exposure compensation Like normal exposure compensation, flash exposure compensation can be used to set the flash output up to ±3 stops in 1/3 stop increments.
- FEB (Flash Exposure Bracketing) As with AEB (autoexposure bracketing), flash exposures can be bracketed up to ±3 stops in 1/3-stop increments.
- · E-TTL wireless autoflash with multiple Speedlites E-TTL autoflash can also be implemented with multiple wireless Speedlites. All the leatures listed above can be used, and no connections codes are required. Sophisticated lighting effects can be obtained as easily as using a Speedlite directly attached to the camera.
- E-TTL is an abbreviation for Evaluative-Through The-Lens.
  - · With autofocus, the flash exposure is always based on the aperture (set automatically or manually) and autotlash metering is weighted at the current focusing point.
  - · When it is dilticult to autofocus, the 550EX's built in AF-assist beam is emitted automatically. The beam is linked to the active tocusing point in the Area AF.

#### Full Auto Flash

Full Auto E-TTL autoflash used with the <P> Program AE mode is described here. For details on Speedlite 550EX operations, see the Speedlite 550EX Instructions booklet.



Set the camera's shooting mode to P.

Check that the 550EX's pilot lamp is lit.

Focus the subject.

Take the picture.

Make sure the tlash-ready indicator \$
is on, and check the shutter speed
and aperture before taking the
picture.

### E-TTL Autoflash in Other Shooting Modes

Even in the Tv. Av, and M modes, E-TTL autoflash is as easy as normal picture-taking without flash.

(1) When you press the shutter button halfway, the shutter speed and aperture are set by the camera as with normal picture-taking without flash.

	Mode	Shulter Speed Setting	Flash Aperture Setting
Tv	(Shutter speed-priority AE)	Manual (30 sec 1/250 sec.)	Auto
Αv	(Aperture-priority AE)	Auto (30 sec 1/250 sec.)	Manual
М	(Manual)	Manual (30 sec 1/250 sec.)	Manual

- (2) When you press the shutter button completely, pretlash evaluative metering based on the aperture set in (1) is used for the E-TTL autoflash exposure.
- (3) The background exposure is set by the shutter speed and aperture combination.

### High-Speed Sync (FP Flash)

When the Speedlite 550EX is set to the high-speed sync mode (  $\blacksquare$ ), it can synchronize at all shutter speeds, even those faster than 1/250 sec. When high-speed sync is enabled,  $\$_{\rm H}$  is displayed in the viewfinder to indicate high-speed sync.

High-speed sync is effective in the following cases:

- (1) When you want to use till flash for a portrait and maintain background blur with a large aperture.
- (2) When you want to produce a catchlight in the subject's eyes.
- (3) When you want to use fill flash to eliminate shadows

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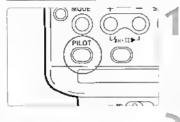
With conventional tlash.

The image was removed due to copyright restrictions

With FP flash.

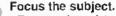
#### FE Lock

FE (flash exposure) lock obtains and locks the correct tlash exposure reading for any part of the scene.

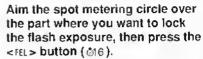


#### Check that the Speedlite's pilot lamp is lit.

 The flash mode can be either normal or high-speed sync. FE lock works with either mode.



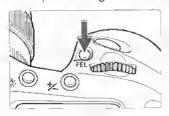
 Focus at the point where you want to lock the flash exposure.

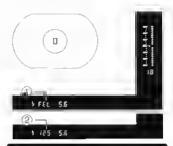


- The Speedlite fires a preflash and stores the required flash output in memory.
- In the viewfinder, the focusing point achieving FE lock flashes in red.



Spot metering circle





 Below the viewfinder, the display shown by (1) appears for 0.5 sec, followed by the display shown by (2).

The image was removed due to copyright restrictions Compose the shot and take the picture.

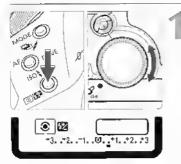
For this picture, the flash exposure was locked for the face and then the picture was recomposed. The subject was exposed correctly without being affected by the background reflection.

If the subject is too far away resulting in underexposure, the \$ icon will blink. Get closer to the subject and follow steps 3 and 4.

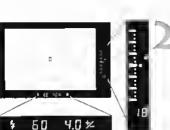
C.Fn 13·1/3 enables FE lock with the manually-selected focusing point. (→p.106)

### Flash Exposure Compensation

With the camera, you can set the EOS dedicated Speedlite's flash exposure compensation amount up to ±3 stops in 1/3-stop increments.



While pressing the <∰>> button, turn the < ( > dial to set the desired flash exposure compensation amount.



· On the LCD panel, the plus side of the scale indicates overexposure and the minus side indicates underexposure. The sample display shows +2/3 stop flash exposure compensation.

#### Take the picture.

- · Press the shutter button halfway to display the flash exposure compensation amount on the viewfinder's exposure level scale.
- Press the <₩> button to display the flash exposure compensation amount on the LCD panel.
- To cancel flash exposure compensation, set the flash exposure compensation amount to < 0 >.

- lacksquare . The flash exposure compensation amount will be retained even after the < lacksquare > switch is set to < OFF >.
  - The flash exposure compensation amount can also be set with Canon Speedlites 550EX, 540EZ, 430EZ, and Macro Ring Lite MR-14EX. If flash exposure compensation is set with both the camera and Speedlite, the Speedlite's flash exposure compensation amount will override the one set with the camera.

C.Fn C.Fn 6-2 enables the flash exposure compensation amount to be set in 1/2stop increments.  $(\rightarrow p.102)$ 

### FEB (Flash Exposure Bracketing)

With the Canon Speedlite 550EX, three successive tlash shots can be bracketed automatically up to ±3 stops in 1/3-stop increments. The tlash output is changed for the three shots while the background exposure remains the same.

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The image was removed due to due to copyright restrictions

The image was removed due to copyright restrictions

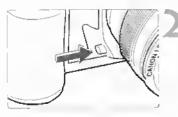
Correct exposure (0). Underexposure (-1/3 stop). Overexposure (+1/3 stop).

- Flash exposure bracketing is set with the 550EX. For details, see the 550EX's Instructions booklet.
- The flash exposure bracketing amount set with the 550EX is indicated by the flash exposure level indicator in the camera's viewtinder.
- Make sure the Speedlite 550EX is ready before taking the next bracketed shot. Single-frame shooting ( ) is recommended.

C.Fn-6-2 enables the flash exposure bracketing amount to be set in 1/2-stop increments, (---p.102)

### Modeling Flash

By firing a modeling flash, you can see the shadows and other flash lighting effects produced by one or more Speedlites.



Make sure the camera and Speedlite are properly set for flash photography.

Press the camera's depth-of-field preview button.

 The Speedlite 550EX fires at 70 Hz for 1 second.

#### Wireless, Multi-Speedlite System

Speedlite 550EX has the following three features:

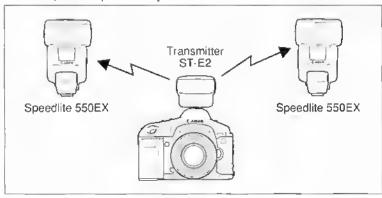
- (1) E-TTL autoftash
- (2) Slave unit feature
- (3) Master unit feature for wireless control of 550EX slave units

By using the above features, you can set up a wireless E-TTL autoflash system with multiple Speedlite 550EXs.

You can also set a flash output ratio for up to three groups of Speedlites to create the desired flash lighting effect.

For details, see the 550EX and ST-E2's Instructions booklet.

### Wireless, multi-Speedlite system



# Using Other EOS-Dedicated Speedlites

With an EOS-dedicated Speedlite other than the EX series, TTL autoflash can be easily used like any AE mode.

The flash exposure is controlled by real-time, off-the-tilm tlash metering. linked to the focusing point.

(1) When you press the shutter button halfway, the shutter speed and aperture are set automatically by the camera as with normal picture-taking without flash.

	Mode	Shutter Speed Setting	Ftash Aperture Setting
P	(Program AE)	Auto (1/69 sec 1/250 sec.)	Auto
Tv	(Shutter speed-priority AE)	Manuat (30 sec 1/250 sec.)	Auto
Av	(Aperture-priority AE)	Auto (30 sec 1/250 sec.)	Manuat
М	(Manual)	Manual (30 sec. + 1/250 sec.)	Manual

- (2) When you press the shutter button completely, TTL autoflash based on the aperture set in (1) is used.
- (3) The background exposure is set by the shutter speed and aperture combination.



- Flash exposure compensation can also be set with the camera.
  - If the multi-Speedlite system is wired with llash cords, TTL autotlash takes ellect.
  - About automatic reduction of flash output It an EOS dedicated Speedlite is used to illuminate a subject backfit by an overhead light, the flash output is reduced automatically to avoid having an unnatural-looking exposure. This is called automatic reduction of flash output.

C.Fn C.Fn-14 can cancel the automatic reduction of flash output. (→p.107)

# Using Non-Canon Flash Units

#### Sync Speed

The EOS-1 V can synchronize with compact, non-Canon flash units at 1/250 sec. or slower shutter speeds. With large studio flash, the sync speed is 1/125 sec. or slower. Be sure to test the flash to see if it synchronizes properly with the camera.

#### PC Terminal

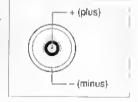
The camera's PC terminal is provided for flash units using a sync cord. The PC terminal is threaded to prevent inadvertent disconnection. Only X-sync is used for synchronization at 1/250 sec. or slower.

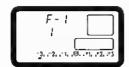


- A flash unit attached to the camera's hot shoe and a flash unit connected to the PC terminal can be used at the same time.
  - Canon EOS-dedicated Speedliles are recommended for use with this camera.



- · If the camera is used with a flash unit or flash accessory dedicated to a another camera brand, the camera may not operate properly and camera mallunction may result.
- There are studio flash units whose sync cord polarity is opposite from the camera's PC terminal. Such flash units do not work with the EOS-1V camera unless the polarity of the sync cable is changed. Consult the manufacturer of the flash unit or purchase a commercially-available polarity conversion cord. The camera's PC terminal polarity is shown in the ligure on the right.





Custom Functions enable you to customize various camera features to suit your picture-taking preterences. In the previous text, all the previous text, all the previous text, all the previous text, all the previous text, and the previous text,

C.Fn-098	C.Fn-10 104
C.Fn-198	C.Fn-11 ··· 105
C.Fn-2 ·····99	C.Fn-12 ···106
C.Fn-399	C.Fn-13 ···106
C-F0-4 ···100	C.Fn-14 ···107
C.Fn-5 101	C.Fn-15 ···107
C.Fn-6 ···102	C.Fn-16 ···108
С.Fп-7 ···102	C.Fn-17 ···108
C.m.a ···103	C.rn-18 ···109
C.Fn-9 ··· 104	C.Fn-19 110

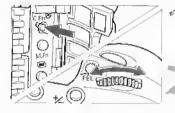
# **Custom Functions**

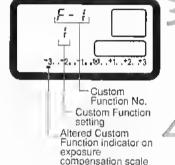


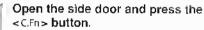


First set the < ② > switch to < ON >. If necessary, also set the < ② > switch to < ON >.

# Selecting and Setting a Custom Functions







- The Custom Function No. appears on the LCD panel.
- Turn the < >> dial until the desired Custom Function No. appears.

# Press the <C.Fn> button to change the Custom Function's setting.

- The Custom Function selting changes each time you press the <C.Fn> butlon.
- To change C.Fn·0's setting, press the <C.Fn> button for at least 2 seconds. (→p.127)

# Press the shutter button halfway.

 The LCD panel returns to the normal display and the new Custom Function setting takes effect.





In this example, the scale shows that Custom Functions C.Fn-1, C.Fn-5, C.Fn-10, and C.Fn-14 have been altered.

Altered Custom Function Indicator
 Atter you alter a Custom Function
 setting and press the < C.Fn > button, a
 bar ■ appears on the exposure
 compensation scale.

The scale's increments from left to right are used to denote the 19 Custom Functions. The left-most increment (–3) is for C.Fn-1. The next increment to the right denotes the next Custom Function in numerical order up to C.Fn-19.

"C.Fn" is the abbreviation for "Custom Function."

# Canceling a Custom Function



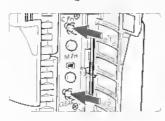


- Open the side door and press the <C.Fn> button.
  - The Custom Function No. appears on the LCD panel.
- Turn the < >> dial until the Custom Function No. whose setting is to be canceled appears.
- Press the <C.Fn> button until the setting returns to [].



 The LCD panel returns to the normal display and the Custom Function setting is canceled.

### **Canceling All Custom Functions**



Open the side door and press the < C.Fn> button. Then press the < CLEAR > button.

 Except for C.Fn-0, all the Custom Function settings will be reset to 0.

# **Custom Function Settings**

# C.Fn-0 Focusing screen characteristics

This makes the camera's built-in exposure meter compatible with the tocusing screen characteristics. Be sure to set this Custom Function to suit the focusing screen installed in the camera. (→p.127)

C.Fn	Function	No.		Description
C.Fn⋅0	Focusing screen characteristics	0	N	For Ec·N, Ec·R
0.1110	characteristics	1		For Ec-A, B, C, CII, CIII, D, H, I, L

C.Fn-0-0: For New Laser-matte screens.

C.Fn-0-1: For Laser-matte screens.

Since the EOS-1V's standard focusing screen is the Ec-CIII,

C.Fn·0·1 is already set upon lactory shipment.

### C.Fn-1 Auto film rewind mode

You can disable auto film rewind or make it silent.

C.Fn	Function	No.		Description	
	.Fn-1 Auto film rewind	4	Enabled	High-speed	
C En-1		1	#	Disabled	rewind
0.1111		2	\$	Enabled	Silent rewind
		3	<u>s</u>	Disabled	Silent Tewind

C.Fn-1-1/3: Disables automatic tilm rewind. This is effective when you do not want film rewind to start on its own and make a sudden disturbance. Press the < Q±4 > button to rewind. (→p.28)

C.Fn-1-2: This makes the automatic tilm rewind more silent.

#### C.Fn-2 Film leader position

When the film rewind is completed, you can leave out the film leader.

C.Fn	Function	No.		Description
C.E. O		0	Ū	Rewinds film leader info the cartridge.
0.411-2	Film leader position	1		Leaves film leader outside the cartridge.

#### C.Fn-2-1: This is convenient if you develop your own film.

With C.Fn-2-1 set, the shutter speed will always be 1/8000 sec. when you release the shutter with the camera back open.

#### C.Fn-3 DX-coded film speed sefting method

This can prevent the camera from automatically setting the ISO film speed.

C.Fn	Function	No.		Description
C.Fn-3	Automatic setfing of	0	ISO DX	Enabled
U.FIF3	DX-coded lilm speed	1	ISO M	Disabled

C.Fn-3-1: This enables you to set fhe film speed manually. (→p.73) This ensures that the desired film speed is set. You need not keep setting the film speed manually each time you load the film.

### C.Fn-4 AF activation/AE lock

You can achieve focus and obtain the correct exposure separately. You can also stop the Al Servo AF operation temporarily.

C.Fn	Function No.		Description		
		0	•AF •AEL	Shutter button/AE lock button	
C.Fn-4	AE IOCK	1	● AEL • AE AF	AE lock button/Shutter bullon	
O, T   T		AE IOCK	AE IOCK	2	•AFL
	: Shutter button    : AE lock button	3	●AE •AEAF	AE lock button/Disabled (→Real-time AE)	

- C.Fn-4-1: You can focus at one location and obtain AE lock at another location in the scene. Press the < \*\foats > button to autofocus and press the shutter bullon halfway to attain AE lock, (\(\top p.71\))
- C.Fn-4-2: In the Al Servo AF mode, you can press the <\*> button to stop the Al Servo AF operation momentarily. It prevents the AF from being Ihrown oil by any passing obstruction coming between the camera and subject. The exposure is set when the picture is taken. (→p.36)
- C.Fn-4-3: This is useful for subjects which keep moving and stopping repeatedly. In the AI Servo AF mode, you can press the < \*> butlon to start or stop the AI Servo AF operation. The exposure is set when the picture is taken. Thus, the optimum focusing and exposure are always ready for the decisive moment.

C.Fn-4 and C.Fn-19-0/1/2 (→p.110) both have AF start/stop and AE lock functions, if you have set both these Custom Functions and you execute both Custom Function operations, the latter operation will not work. The only exception will be when AF stop is executed after AF start.

### C.Fn-5 Manual Tv/Av settings

During manual exposures, you can change the aperture with the < emis > dial and set the aperture even while the lens is detached from the camera.

C.Fn	Function		No.	Description
_		0	←Tv *Av	Sets shutter speed/ Sets aperture
05-5	Manual Tv/Av setting with the Main Dial / Quick Control Dial	1	∼Av *Tv	Sets aperture/ Sets shutter speed
C.Fn-5		2	~ [v * [j]	Sets shuffer speed/ Sets aperture
		3	~[] * Tv	Sets aperture/ Sets shutter speed

- This icon indicates that the aperture can be set with the lens detached from the camera.
- C.Fn-5-1: Use the <○> dial to set the shutter speed and the < △> dial to set the aperture. The shutter speed can also be set by pressing the < ½> buffon and turning the < △> dial. This is convenient when you have to often change the aperture during studio sessions with studio flash units. (→p.66) Also, when you use AEB in the manual exposure mode, the shutter speed can slay fixed while only the aperture is shifted for AEB.
- C.Fn-5-2: You set the shutter speed and aperture in the same way as with C.Fn-5-0. And you can still set the aperture even while the lens is defached from the camera. Convenient especially for prophotographer assistants when a super felephoto lens is used with more than one EOS-1V body.
- C.Fn-5-3: You set the shutter speed and aperture in the same way as with C.Fn-5-1. And you can still set the aperture even while the lens is detached from the camera.
- tt this Custom Function is used with C.Fn-11-1/2, you have to use the <⊞> button and dial instead of the < ½ > button and dial to set the shutter speed and aperture.

# C.Fn-6 Exposure level increments

You can change the increments for the exposure setting (shutter speed and aperture) and exposure compensation (AE, AEB, flash exposure).

C.Fn	Function		No.	Description
C.Fn-6	Increments for the exposure setting (shutter speed/aperture) and exposure compensation	0	1/3 STEP	1/3-stop exposure setting/ 1/3-stop exposure compensation
		1	1 STEP	1-stop exposure setting/ 1/3-stop exposure compensation
		2	1/2 STEP	1/2-stop exposure setting/ 1/2-stop exposure compensation

C.Fn-6-1: Sets whole-stop increments for the shutter speed and aperture which might be familiar to older users.

C.Fn·6·2: Suited for negative films which have a relatively wide exposure latitude.

# C.Fn-7 USM lens electronic manual focusing

After tocus is achieved in the One-Shot AF mode, electronic manual focusing is possible with the following lenses:

EF 50mm f/1.0L USM, EF 85mm I/1.2L USM, EF 200mm t/1.8L USM, EF 300mm f/2.8L USM, EF 400mm I/2.8L USM, EF 500mm f/4.5L USM, EF 600mm t/4L USM, EF 1200mm f/5.6L USM, EF 28-80mm f/2.8-4L USM.

C.Fn	Function	No.		Description
Electronia menuel	0	AF MF	Enabled (With C.Fn-4-1/3, enabled before achieving tocus)	
C.Fn-7	C.Fn-7 Electronic manual focusing after One-Shot AF	1	AF M	Disabled (With C.Fn-4-1/3, enabled before achieving focus)
		2	AF	Disabled (Disabled before achieving locus even with C.Fn-4-1/3)

C.Fn-7-1: This prevents the tocus from being thrown off by inadvertant turning of the focusing ring after One-Shot AF. (Focusing is possible before tocus is achieved.) With both C.Fn-7-1 and C.Fn-7-2, manual focusing is possible with the lens focus mode switch set to MF or M.

C.Fn-7-2: Electronic manual focusing is disabled in the AF mode.

When both C.Fn-4 and C.Fn-7 are set, electronic manual focusing will be enabled or disabled as follows:

Custom Fu	inction No.	C.F	n-4
	Setting	0, 2	1, 3
0.5- 7	0	X/O	0/0
C.Fn-7	1	X/X	O/X
	2	X/X	X/X

Before focus is achieved/After focus is achieved

O: Enabled

X: Disabled

# C.Fn-8 Frame counter sequence

The frame counter can count down to show the remaining number of frames, or it can be displayed in the viewfinder in the same way as with the EOS-1N.

C.Fn	Function		No.	Description
		0		Counts up
C.Fn-8	C.Fn-8 Frame counter sequence	1	35	Counts down
		2	9	F or $9\cdot 0$ displayed by frame counter in viewfinder (same as with EOS-1N).

- C.Fn-8-1: You can see how many frames are left in the roll. The frame counter in the viewfinder also counts down. The ♦ icon will be displayed on the left of the frame counter on the LCD panel and in the viewfinder.
- C.Fn-8-2: The frame counter in the viewfinder will be displayed in the same way as with the EOS-1N. When the remaining number of frames is 10 or more, "F" is displayed. When it is 9 or less, a count down is displayed.

### C.Fn-9 AEB sequence and auto cancellation

You can after the standard AEB sequence of correct exposure, underexposure, and overexposure and prevent AEB cancellation after changing the lens, reloading film, or turning off the Main Switch.

O: Correct exposure -: Underexposure +: Overexposure

C.Fn	Function		Vo.	Description
AEB sequence/Auto cancellation after C.Fn-9 lens change, film		0	-	O, -, + / Enabled
	1	6-1	O, -, + / Disabled	
0.11-9	C.Fn-9   lens change, film   loading, or Main   Switch OFF	2	0	-, O, + / Enabled
		3	(0)	-, O, + / Disabled

C.Fn-9-1: You can continue taking AEB shots in this sequence.

C.Fn-9-2: The AEB sequence progresses from the shortest exposure.

C.Fn-9-3: You can continue taking AEB shots in the same sequence as with C.Fn-9-2.

# C.Fn-10 Focusing point flashing mode

You can disable the in-focus llashing of the focusing point or make it brighter for easier visibility in bright scenes.

C.Fn	Function	No.		Description
		0	<u>-</u> ;ģ:	Enabled
C.Fn-10	Focusing point	1		Disabled
Ilashing	Focusing point Ilashing mode	2	<b>→</b> ;ģ;	Enabled (No dim flashing) .
		3	黨	Bright flashing

C.Fn-10-1; The focusing point does not flash at all.

C.Fn-10-2: Prevents the dimmed flashing of C.Fn-10-0.

C.Fn-10-3: Effective when the focusing point flashing is difficult to see with C.Fn-10-0.

### C.Fn-11 Focusing point selection method

C.Fn	Function		No.	Description
		0		<=>+< <u></u> >+< <u></u> >>
C.Fn-11	Focusing point	1	1	< ½> + < △> ↑ < ½> + < ○>
O.FIII	selection method	2		
		3	3	

- C.Fn-11-2: While exposure metering is active, turn the < > dial to select a horizontal (or peripheral focusing point with C.Fn-13-3 set) tocusing point. This is also possible while you press the shutter button halfway during Al Servo AF.

To select a vertical tocusing point, hold down the < >> button and lurn the < >> dial. (It C.Fn-18·1/2 has been set, a vertical tocusing point cannot be selected in this way.)

Turning the dial beyond the peripheral focusing point will not select any other tocusing point.

C.Fn-11-1 operations are also possible.

Pressing the < > button during autofocusing will switch to the automatic focusing point selection mode.

C.Fn-11-3: This reverses the functions of the <>> button and <FEL > button. Press the <FEL > button, then turn the < /></>
> dial to select a horizontal tocusing point or turn the 
> dial to select a vertical focusing point.

### C.Fn-12 Mirror lockup

C,Fn	Function	No.		Description
G.Fn-12 Mirror locku	Mirror lackup	O	17	Disabled
J., , , , ,	Will Strib Skap	1	1	Enabled

C.Fn-12-1: Effective for close-up and telephoto shots to prevent camera vibration caused by the mirror's reflex action. See page 81 to use this feature.

C.Fn-13 Focusing point selection limit and spot metering linkage The selectable focusing points can be limited to 11 or 9 to make focusing point selection faster. Spot metering can also be linked to the focusing point. This makes it easier to frame the subject, and it is effective for spotlighted subjects.

C.Fn	Function		No.	Description
		0		45 / Center focusing point
C.Fn-13	Focusing point selection limit /	1		11 / Active focusing point
	Spot metering linkage (FE lock)	2	000	11 / Center focusing point
		3	·:::	9 / Active focusing point

C.Fn-13-1: The selectable focusing points are limited to 11. Spot metering is linked to the active focusing point. (→p.38)

C.Fn-13-2: The selectable focusing points are limited to 11. Spot metering is linked to the center focusing point. (→p.38)

C.Fn-13-3: The selectable focusing points are limited to 9. Spot metering is linked to the active focusing point. (→p.38)

- The metering mode must be set to spot metering before it can be linked to the locusing point.
  - If C.Fn-13-1/2 is set or cancelled, the registered focusing point (→p.42) will be replaced by the center focusing point.



- Any metering mode besides spot metering can be used.
  - With C.Fn-13-1/2/3, att 45 focusing points will be subject to automatic selection.

#### C.Fn-14 Automatic reduction of fill flash output

C.Fn	Function	No.		Description
C.Fn-14	Automatic reduction of Iill flash output	0	7 (A)	Enabled
0.14614	of lill flash output	1	<b>7</b> 0	Disabled

C.Fn-14-1: This prevents underexposure of a subject in front of a strong backlight such as a sunset.

# C.Fn-15 Shutter curtain synchronization

	C.Fn	Function	No.		Description
	2 En 15	Shutter curtain synchronization	0		1st-curtain synchronization
	J.FI1-13	synchronization	1		2nd-curtain synchronization

C.Fn-15-1; By using a slow sync speed, you can create a fight trail following a moving subject. The flash fires right before the shutter closes.

> This Custom Function can be used to obtain 2nd-curtain sync effects even with EX-series Speedlites which do not have this capability. If an EX-series Speedtite having this capability is set for 2nd-curtain sync, it will override the camera's setting.

### C.Fn-16 Safety shift

Satety shift can be set for the shutter speed-priority AE and aperturepriority AE modes.

C.Fn	Function	No.		Description
C En-16	Safety shift tor Tv- AE and Av-AE	0	(\$\$)	Disabled
	AE and Av-AE	1	SS	Enabled

C.Fn-16-1: In case the subject's brightness changes suddenly and the current shutter speed-priority AE or aperture-priority AE setting becomes unsuitable, the shutter speed or aperture is shitted to obtain a suitable exposure.

### C.Fn-17 Focusing point activation area

The manually selected focusing point's activation area can be expanded.  $(\rightarrow p.44)$ 

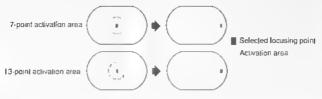
Setting C.Fn-13 will also expand the tocusing point activation area.

C.Fn	Function		No.	Description
		0	$\odot$	t (Standard)
C.Fn-17	C.Fn-17 Focusing point activation area	1		1 + Adjacent focusing points
		2	(;;;	t + More adjacent locusing points

C.Fn-17-1: The tocusing point activation area expands by one point all around the manually-selected focusing point. A total of 7 focusing points become active. This setting is effective for when only one manually-selected focusing point is unable to focus track a subject moving irregularly.

C.Fn-17-2: The camera automatically sets the focusing point activation area to 1, 7 or 13 points to suit the lens focal length, AF mode, and the subject's speed during predictive AF. (→p.44) This is effective when the subject's movement is unpredictable.

The focusing point activation area centers on the selected focusing point. Therefore, if a peripheral focusing point is selected, the tocusing point activation area will be smaller as shown below.



# C.Fn-18 Switchover to registered focusing point

You can switch to the registered focusing point just by pressing the < ⋈>> button.  $(\rightarrow p.42)$ 

C.Fn	Function		No.	Description
	Cuitabaurata	0	1	Use <∰> button + <∰> button
C.Fn-18	Switchover to registered tocusing point	1	2	Use only < :-> button
		2	-0	Switchover only while pressing < 100 > button

C.Fn. 18-1; Press the < [52] > to switch to the registered focusing point. C.Fn-18-2: Switch to the registered locusing point only while you press the < !!! > button. When you release the button, it switches back to the previous tocusing point. You can thereby easily switch between the selected focusing point and registered focusing point.

It C.Fn.4-1/3 is also set, you can press the < 1 > butten to switch to the registered focusing point and start the AF at the same time. (-->p.100)

# C.Fn-19 Lens AF stop button function switching

The function of the AF stop button provided with super telephoto Image Stabilizer lenses can be shifted to the AF start button or AE lock button.

C.Fn	Function		No.	Description
		0	AFL	AF stop
		1	AF	AF start
C.Fn-19	Lens AF stop button	2	AEL	AE lock while metering is active
0.711-13	function switching	3		Automatic selection of 45 locusing points when pressed
		4	AF MODE	Toggle between One Shot AF and Al Servo AF
		5	IS	Turn on Image Stabilizer

C.Fn-19-1: AF operates only while the AF stop button is pressed. While the button is pressed, AF operation with the camera is disabled.

C.Fn-19-2: When the button is pressed while metering is still active, AE lock takes effect. Convenient when you want to focus and

meter separately.

C.Fn-19-3: One of the 45 focusing points is selected automatically only while you press the button. It switches from manual locusing point selection to automatic locusing point selection. Convenient when you are no longer able to focus track a moving subject with a manually-selected focusing point in the Al Servo AF mode.

C.Fn-19-4: In the One-Shot AF mode, pressing the button switches to AI Servo AF mode only while the button is pressed. In the AI Servo AF mode, pressing the button switches to One-Shot AF mode only while the button is pressed. Convenient when you need to keep switching between One-Shot AF and AI Servo AF for a subject which keeps moving and stopping.

C.Fn-19-5: With the lens' IS switch already ON, the Image Stabilizer

operates only while you press the button.

# Personal Functions

Personal Functions enable you to further customize your camera settings. They are set with EOS LINK SOFTWARE ES E1 (sold separately, →p.130) which connects the EOS-1V to a personal computer.
P.Fn-0 (Custom Function group registration) can be set with the EOS-1V

body as well.

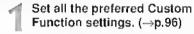
# Personal Functions

P.Fn-0	Custom Function group registration,
P.Fn·1	Disables unwanted picture taking mode(s).
P.Fn-2	Disables unwanted metering mode(s).
P.Fn-3	Specilies the metering mode for manual exposure.
P.Fn·4	Sets the maximum and minimum shutter speeds to be used.
P.Fn·5	Sets the maximum and minimum apertures to be used.
P.Fn-6	Registers and switches the shooting mode and metering mode.
P.Fn-7	Repeals AEB during continuous shooting.
P.Fn-8	Sets AEB only for the first two frames.
P.Fn-9	Changes the AEB sequence for C.Fn-9-2-3 to overexposure, correct exposure, and underexposure.
P.Fn-10	Maintains the shift amount for program shift.
P.Fn-11	Prevents cancellation of multiple exposures.
P.Fn-12	Sets the Al Servo AF's subject-tracking sensitivity,
P.Fn-13	Al Servo AF continuous shooting is executed according to the film advance speed.
P.Fn-14	Disables AF lens driving for focus search.
P.Fn-15	Disables the AF-assist beam from being emitted.
P.Fn-16	Enables the picture to be taken automatically when it costs achieved at the fixed point of locus while the shutter button is pressed completely.
P.Fn-17	Prevents automatic locusing point selection from being set.
P.Fn-18	Enables automatic locusing point selection when C.Fn-11-2 has been set.
P.Fn-19	Sels the film advance mode's continuous shooting speed for when the Power Drive Boosler is attached.
P.Fn-20	Limits the number of frames exposed during continuous shooting.
P.Fn-21	Enables silent (low-speed) film advance when the shutter button is OFF after picture taking.
P.Fn-22	Disables the shutter release when film has not been loaded.
P.Fn-23	The function activation times after the button is cressed can be changed to e different time length ( 6. 6. 6. etc.).
P.Fn-24	Prevents the LCD panel illumination from turning off during bulb exposures.
P.Fn-25	Changes the default settings implemented when the CLEAR button is ON.
P.Fn-26	Shortens the shutter release time tag.
P.Fn-27	Enables the electronic dial's function to be used in the reverse direction.
P.Fn-28	Prevents exposure compensation with the Quick Control Dial.
P.Fn-29	Issues a warning when there is enough memory to store shooting dete for only ellew more rolls of film.
P.Fn-30	Changes the imprinting density of the film ID.

# P.Fn-0 Custom Function Group

To suit various shooting situations such as sports, snapshots, and landscapes, up to three different sets of Custom Function settings can be registered with the "Personal Function 0" setting.

# Custom Function Group Registration

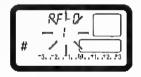


# Press the <MFn> button to set the Personal Function mode.

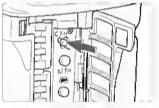
 Each time you press the button, one of the three icons on the left side of the LCD panel will appear in turn. Press the button until the PF Icon # appears.

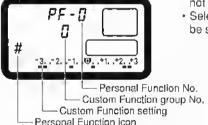
# Press the <C.Fn> button to set the Custom Function group number.

- Each time the button is pressed, the Custom Function group number changes in the following looping sequence: B. J. Z. B. B. An unregistered group number will blink while a registered group number will nat blink.
- Select only 1, 2, or 3. "B" cannot be selected.



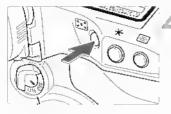








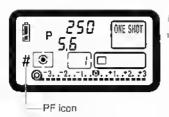
🏮 "PF-0-0" indicates the current setting.





 C.Fn-1 to C.Fn-19 will be registered as one set of Custom Function settings.





# Press the shutter button halfway.

- The LCD panel returns to the normal display and this completes the Custom Function group registration. When the registered Custom Function group is being used, the # icon is displayed on the LCD panel.
- To register a Custom Function group for PF-0-2 and PF-0-3, repeat steps 1 to 5. The procedure must be repealed if any of the Custom Function settings have been changed.
- C.Fn-0 (Focusing screen characteristics) is not registered in the Custom Function group.

# Selecting a Custom Function Group

To select a Custom Function group, follow steps 2 and 3 to select the Custom Function group No., Then press the shulter button halfway. This selects the Custom Function group to be used.

- The Custom Functions in a registered group cannot be cancelled all at one time. (→p.97)
- "P.Fn" is the abbreviation for "Personal Function."

# Recording the Shooting Data

The EOS-1V can record the shooting data automatically. The recorded data can be viewed and edited with a personal computer by using EOS LINK SOFTWARE ES-E1 (sold separately).

# Standard Shooting Data

- Selectable No.
  - 2. Film ID
- 3. Film-loaded date and time
- 4. DX-coded tilm speed
- 5. Frame No.
- 6. Shooting mode
- 7. Lens max. aperlure
- 8. Shutter speed used
- 9. Battery-loaded date and time
- 10. Manually set ISO speed
- 11, Exposure compensation amount
- 12. Flash exposure compensation amount
- 13. Flash mode
- 14 Melering mode
- 15. Lens focal length used
- 16. Film advance mode
- 17. AF mode

# Optional Shooting Data Recordable with EOS LINK SOFTWARE ES-E1

- Bulb exposure time
- 2. Date
- 3. Time
- 4. Custom Function settings
- 5. Focusing point selection
- 6. Multiple exposures
- 7. Focusing points achieving focus
- 8. Battery loaded date and time

The EOS-1V HS attached with Power Drive Booster PB-E2 offers four film advance modes. The vertical grip also has its own shutter button, focusing point selector <\extstyle=>, Main Dial <\textstyle=>>, FE lock/multi-spot metering button <FEL>, and AE lock button <\textstyle=>. The camera is powered by eight size-AA batteries. The Nickel-Hydride Pack NP-E2 and the dedicated Nickel-Hydride Charger NC-E2 (both sold separately) are also available. For better holding comfort, Handstrap E1 is also available.

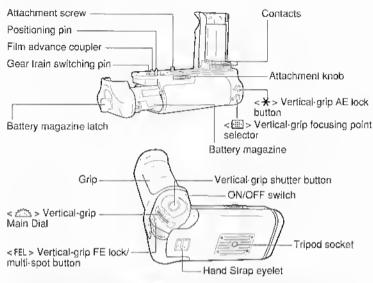
# For EOS-1V HS Users

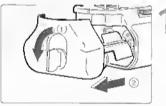


First set the <@> switch to <ON>.



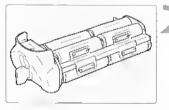
To use the vertical-grip controls, first set the P8-E2's ON/OFF switch to ON.







- Turn the battery magazine latch as shown by the arrow. Then pull out the magazine.
- To reinstall the battery magazine, follow this procedure in reverse.



# Install the batteries.

- Refer to the battery orientation diagram on the magazine and install the batteries in the proper + and – orientation. If any battery is not oriented properly, the Power Drive Booster will not operate.
- The battery level can be checked with the camera. (→p.24)

# Film Advance Modes (→p.77)

# <□H"> Ultra-high speed continuous shooting

With the Nickel-Hydride Pack NP-E2 attached (sold separately →p.133), shoot up to about 10 frames per sec. while pressing the shutter button.

# • < □H > High-speed continuous shooting

Shoot up to about 6 frames per sec. (or 7 fps with NP-E2) while pressing the shutter button.

# <⊕1> Low-speed continuous shooting

Shoot up to about 3 frames per sec. while pressing the shutter button.

# < □> Single-frame shooting

After a picture is taken, the film advances by 1 frame automatically.

# Continuous Shooling Speed According to AF Mode and Battery Type

In fps (approx.)

Mode	One-Shot	AF / Manual	Al Se	rvo AF
Mode	NP-E2	Size-AA batteries	NP-E2	Size-AA batteries
< <sup>□</sup> H <sup>n</sup> > Ultra-high speed continuous shooting	10	_	9	_
< □ High-speed continuous shooting	7	6	7	5
< 말 L > Low-speed continuous shooting	3	3	3	3

The figures above apply when the shutter speed is 1/250 sec. or faster.

# EOS-1V HS Film Roll Shooting Capacity

Power Source Temperature	AA Alkaline	AA Lithium	AA Ni-Cd	Nickel-Hydride Pack NP-E2
At 20°C	125 (85)	180 (120)	50 (35)	100 (70)
At -20°C	7 (5)	75 (50)	36 (24)	30 (20)

- The figures in the table above indicate the number of 24-exposure rolls
  that can be shot with a new set of batteries and an EF 50mm f/1.4 lens in
  accordance with Canon's testing conditions. Figures in parentheses
  indicate the number of 36-exposure rolls.
- The shooting capacity will be less if test shooting or autofocusing without film is performed.
- Size-AA nickel-hydride batteries can also be used.

# Attaching Grip GR-E2

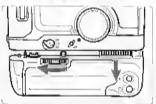
You can replace the Power Drive Booster PB-E2 with the normal Grip GR-E2 (sold separately) found on the EOS-1V.

The GR-E2 uses one lithium 2CR5 battery.



# Install a battery in the Grip GR-E2. $(\rightarrow p.19)$

 As shown in the diagram, insert the battery with the contacts toward the bottom right. Then close the cover,



# Detach the Power Drive Booster PB-E2.

- Turn the Power Drive Booster PB-E2's attachment knob as shown by the arrow to loosen it. Then slide down the Booster.
- On the bottom of the EOS-1V, attach the cover (provided with the GR-E2) on the film advance coupler,  $(\rightarrow p.8)$



# Attach the Grip GR-E2.

- · Attach the Grip to the camera and tighten the Grip's attachment screw.
- Attach the contact cover (provided) with the GR-E2) to the Power Drive Booster PB-E2 to protect the electrical contacts.



# Cautions when using the Power Drive Booster PB-E2 with the EOS-1 and EOS-1N

- Do not use size-AA lithium FR6 batteries or the Nickel-Hydride Pack NP-E2 with the EOS-1. Doing so may damage the EOS-1's electronic circuitry due to the high battery voltage.
- . Do not use the Nickel-Hydride Pack NP-E2 with the EOS-1N. If the battery voltage gets really low, battery pack performance may deteriorate markedly.

This section helps you understand your camera and enjoy photography better. It gives reference information for your camera and introduces system accessories.

# Reference Section

# **Basic Photography Terms**

# Exposure

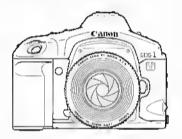
Exposure occurs when the film is exposed to light. Correct exposure is obtained when the film is exposed to a proper amount of light in accordance with the film's sensitivity to light. The correct exposure is adjusted with the camera's shutter speed and aperture.

# Shutter speed

The shutter speed is the length of time the camera's shutter opens to expose the film to the light coming through the lens. The shutter speed is displayed on the camera's LCD panel and in the viewfinder. It ranges from 30 to 1/8000 sec, and bulb.

# Aperture

The aperture setting (f-number) indicates the size of the aperture opening in the lens. It is used to adjust the amount of light striking the film. The aperture setting is displayed on the camera's LCD panel and in the viewfinder. It can range anywhere from 1.0 to 91, depending on the lens attached to the camera.



# ISO film speed

The ISO film speed indicates the film's sensitivity to light. The higher the film speed, the more sensitive the film is. Therefore, ISO 400 and higher-speed films are suited for low-light conditions. The ISO film speed is set in accordance with standards set by the International Standardization Organization (ISO).

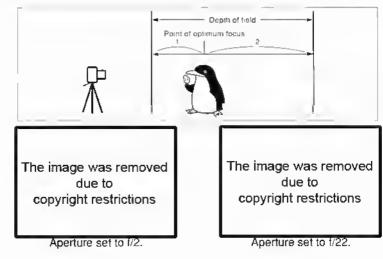
A film speed from 6 to 6400 can be set with the camera. The film speed is displayed on the LCD panel and in the viewfinder.

# Depth of field

This is the range where acceptable focus can be achieved in front of and behind the point of optimum focus. The smaller the aperture (the larger the f-number), the deeper the depth of field. And the larger the aperture (the smaller the f-number), the shaflower the depth of field.

# The depth of field is affected as described below:

- (1) A smaller aperture (a larger f-number) increases the depth of field. For example, stopping down to f/8 obtains a greater depth of field than f/4.5.
- (2) A lens with a shorter focal length increases the depth of field. A wide-angle lens obtains a deeper depth of field than a telephoto lens.
- (3) A longer distance between the camera and subject increases the depth of field.
- (4) The depth of field behind the point of optimum focus is longer than the depth of field in front of the point of optimum focus.



# **Troubleshooting Guide**

It there is a problem, tirst refer to this Troubleshooting Guide. If the problem still persists, take the camera to your nearest Canon Service Center. Canon Service Centers are listed on the back of this booklet.

	e demens are listed on the back of this bookiet.
Nothing is displayed on the LCD panel.	<⊖ > is <off>. Set the &lt;⊖ &gt; switch to <on>. (→p.14) The battery is exhausted. • Replace the battery with a new one. (→p.19, 20) The battery has been installed incorrectly. • Install the battery correctly. (→p.19)</on></off>
The camera's Custom Function cannot be set.	< <p>&gt; is <off>. Set the &lt;<p>&gt; switch to <on>. (→p.14) The &lt;<p>&gt; switch is <off>. Set the &lt;<p>&gt; switch to <on>. (→p.17)</on></p></off></p></on></p></off></p>
AF does not work when the shutter button is pressed halfway.	<⊝> is <off>. Set the &lt;⊖&gt; switch to <on>. (→p.14) The lens tocus mode is set to MF (or M). Set the lens tocus mode to AF (or A). (→p.21) C.Fn-4 is set to 1 or 3. Set C.Fn-4 to 0. (→p.100)</on></off>
The shutter does not work.	The < ■ ■ ■ > icon blinks on the LCD panel.  Take out the tilm and load it correctly. (→p.25, 26)  The < ② > icon blinks on the LCD panel.  Replace the battery. (→p.19)  The < ② > icon blinks while the rewound film is still in the camera.  Replace with a new roll of tilm. (→p.28, 25)  The in-tocus indicator in the viewfinder blinks and focus cannot be achieved.  Select another focusing point. (→p.38) It tocus still cannot be achieved, focus manually. (→p.48)

The film does not rewind automatically.	The temperature is cold, and it has suddenly affected the battery level.  Replace with a new battery. (→p.19) Keep a spare battery on hand and warm the battery in your pocket alternately. (→p.7)  C.Fn-1 is set to 1 or 3.  Set C.Fn-1 to 0 or 2. (→p.98)
The < 0 > Icon blinks on the LCD panel.	The battery level is very low.  Replace The battery with a new one. (→p.19)  A misoperation has occurred with the camera, lens, or Power Drive Booster.  Remove and reload The battery. (→p.19, 116) If the <Û > icon stops blinking, picture-taking is possible. If it is still blinking, consult your nearest Canon Service Center.

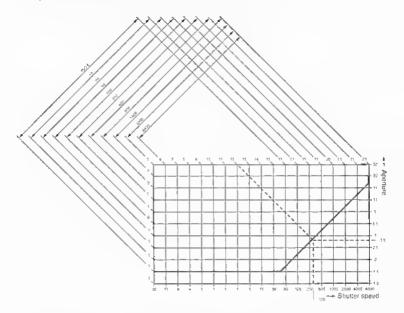
# **Exposure Warning List**

Mode	Blinking Warning	Indication	Countermeasures
Р		The subject is loo dark.	Use Ilash.
		The subject is too bright.	Atlach a neutral density lilter to the lens,
Tv	125 - 14-	The picture will be underexposed.	Turn the < > to set a slower shutter speed.
IV	125 - 22-	The picture will be overexposed.	Turn the $< \underline{\epsilon}^{-}$ > to set a laster shutter speed.
Av	-> 30" (- 5.6	The picture will be underexposed.	Turn the < >> to set a larger aperiure (smaller t-number).
AV		The picture will be overexposed.	Turn the < > lo set a smaller aperture (larger t-number).
	5.6 -5.6	The desired depth of field cannot be obtained.	Move away from the subject and try again.     If a zoom lens is used, use the shortest tocal length.
DEP	30, - 14-	The subject is too dark.	Use tlash.
		The subject is too bright,	Altach a neutral density (ND) lilter to the lens.

The sample warnings apply when a lens having a maximum aperture of I/1.4 and minimum aperture of f/22 is attached to the camera. The maximum and minimum aperlure warning displays will differ depending on the lens attached to the camera.

# **Program Line**

The program line below applies when the camera is used in the Program AE <P> mode with an EF 50mm f/1.4 USM lens.



# **Program Line Description**

The bottom horizontal axis represents the shutter speed and the right vertical axis represents the aperture. On the left edge and top edge of the graph, the Exposure Value (EV) is indicated for respective shutter speed and aperture combination set by the Program AE mode and denoted by the colored program line.

Example: When the subject brightness is EV 12, the point where the diagonal line from EV 12 (on the top edge of the graph) intersects the program line indicates the corresponding shutter speed (1/320 sec.) and aperture (f/3.5) which the program sets automatically.

The arrowhead lines above the graph indicate the metering range for the respective film speed.

# Shutter Speed and Aperture Readouts

# Shutter speed readout

The shutter speed is normally displayed in 1/3-stop increments. Numbers from "4" to "8000" denote the denominator of the shutter speed fraction. For example, "125" is 1/125 sec. Also, 0"3 is 0.3 sec., and 15" is 15 sec.

# Aperture readout

The aperture is normally displayed in 1/3-stop increments. The larger the number, the smaller the aperture opening. The range of aperture numbers (f-numbers) displayed depends on the lens used.

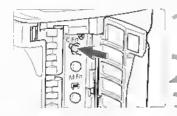
1/3-	stop Ir	oremo	ents	1/2-	stop ir	ocrements	Full-stop II	ncrements
Shutter	speed	Ape	rture	Shutter	r speed	Aperture	Shutter speed	Aperture
		Ape 18 18 18 18 18 18 18 18 18 18 18 18 18		Shutter  8000 4000 4000 4000 1500 1500 1500 4500 4		Aperture  18 18 20 25 28 35 40 45 56 67 80 95 11 13 16 19 22 27		
80 50 40 30 25 20	13" 13" 22" 25" 30"	10 13 14 15 18 20 22		8 6 4 0"3 0"5 0"7		38 45 54 64 76		

C.Fn -6 enables the shutler speed and aperture to be set in full-stop or 1/2stop increments. (→p.102)

# Interchanging the Focusing Screen

You can interchange the camera's focusing screen to suit the picture-taking application. You must also set C.Fn-0 so that the criteria for the correct exposure suits the focusing screen.

Focusing Screen Type	Designation	C.Fn-0 Setting
N: New Laser-matte Screen	Ec N, Ec R	0
L: Laser matte Screen	Ec-series (A, B, C, Cil, Cill, D, H, I, L)	1



# Open the side door and press the <C.Fn> button.

- · The Custom Function No. appears.
- Turn the  $< \triangle >$  dial until "F B" appears.

# Press the < C.Fn> button for 2 seconds.

- Either "#" or " !" will be displayed on the LCD panel.
- Pressing the < C.Fn> button toggles between Ø and I.
- Press the shutter button halfway.

   The LCD panel's normal display
- The LCD panel's normal display reappears.
- C.Fn-0 cannot be registered in a Custom Function group.
- If you do not replace the tocusing screen that came with the camera, you need not change C.Fn-0's setting.
  - To change the tocusing screen, refer to the Instructions that came with the tocusing screen.
  - The Ec.A, Ec.B, Ec-I, and Ec.L tocusing screens have a prism at the center. A
    correct exposure reading cannot be obtained with evaluative metering or spot
    metering based on the prism at the center. Use centerweighted averaging
    metering or off-center spot metering with these tocusing screens.

# Ec-series Interchangeable Focusing Screens

### Ec-A: Slandard microprism



Compatible with all EF lenses. Lenses with a maximum aperture smaller than 1/5.6 will cause the focusing screen's microprism to darken.

### Ec-H: Laser-matte with scale



Compalible with all EF lenses. The scales at the center and periphery help you compose shots for close-ups and photomicrography.

### Ec.B: New split screen



Compatible with all EF lenses. With slow lenses whose maximum aperture is smaller than f/5.6, the split-image circle may darken.

Ec-I: Laser-matte with cross hair relicle



Use the cross hair at the center to tocus, Suited for photomicrography and astrophotography.

### Ec-CII: All Laser-matte



EOS-1N's standard focusing screen.

### Ec-L: Cross spllt screen



Compatible with all EF lenses. Focus with the vertical and horizontal spills. Lenses with a maximum aperture smaller than f/5.6 will cause the locusing screen's split portion to darken.

### Ec-Cill: Laser-matte



EOS-1 V's standard locusing screen, The CIII logo is imprinted on the lug to distinguish it from the Ec. N.

### Ec.N: New Laser-malle



EOS-3's standard tocusing screen.

# Ec. D: Laser matte with grid



Compatible with all EF lenses, Ideal for architectural photography and photo duplication work.

### Ec.R: New Laser-malle



EOS-1N RS's standard tocusing screen.

# **Major Accessories**



# Power Drive Booster PB-E2

Together with the Ni-MH Pack NP-E2, Power Drive Booster PB-E2 enables a top continuous shooting speed of about 10 fps. The vertical grip has its own shutter button, Main Dial, AE lock button, FE lock button, and focusing point selector. It makes vertical shots as easy as horizontal shots, when equipped with Battery Magazine BM-E2, Power Drive Booster PB-E2 is also compatible with the EOS-1N and EOS-1.



### Ni-MH Pack NP-E2

This powerful battery pack is dedicated to Power Drive Booster PB-E2. The rated voltage is 12 V. It can deliver over 500 charging cycles. When fully charged, it has enough power for you to go through 70 rolls of 36-exposure film at 20 C.

\* Power Drive Booster PB-E2 installed with this Pack cannot be used with the EOS-1N and EOS-1.



# Ni-MH Charger NC-E2

This dedicated charger recharges the Ni-MH Pack NP-E2 quickly, taking about 100 minutes for one Pack. Excess recharging is also prevented. Two Packs can be attached at one time. It also has a discharge function (taking about 8.5 hours) which cancels the NP-E2 memory effect. It runs on 100 - 240 VAC.





# Battery Pack BP-E1

The grip portion houses a 2CR5 lithium battery while the battery magazine holds four widely available, size-AA alkaline batteries. You can switch between these two power sources to suit the shooting condition. The continuous shooting speed is the same as with the EOS:1V

### EOS LINK SOFTWARE ES-E1

This enables the EOS-1V to be connected to a personal computer which can be used to further customize the EOS-1V.

The shooting data recorded by the EOS-1V can also be downloaded to the computer for viewing and editing. A dedicated cable is used to connect the EOS-1V's remote control/data transfer terminal to the personal computer's USB port. The software is compatible with personal computers with Windows 98 preinstalled.

 Windows is a registered trademark of Microsoft Corporation in the United States.



# Camera Case EH-11L and EH-11LL

Dedicated, semi-hard case which can accommodate the camera attached with a lens.

Accommodable lenses EH-11L: EF 28-105mm f/3.5-4.5 USM EH-11LL: EF 28-135mm f/3.5-5.6 IS USM



# EX-series Speedlites 550EX, 380EX, and 220EX

Three EOS-dedicated E-TTL autoflash Speedlites are available. The 550EX for a large flash output, the 380EX for affordable performance, and the 220EX for compactness. Their respective Guide numbers (at ISO 100 in meters) are 55, 38, and 22. All three Speedlites enable E-TTL autoflash, high-speed sync (FP flash), and FE lock. With the 550EX, an easy-to-use wireless, multi-Speedlite system is possible.



# Macro Ring Lite MR-14EX

EOS-dedicated macro ring flash feafuring fwin flash tubes, Guide No. 14 (af ISO 100 in meters), and E-TTL autoflash. You can fire only one or both flash tubes and control fhe flash ratio fo easily obtain sophlsticated lighting effects with E-TTL autoflash. Also, high-speed sync (FP flash), FE lock, and a wireless, multi-Speedlite (with 550EX as a slave) system are possible to achieve various macro flash effects.



### Off-Camera Shoe Cord 2

This cord enables the 550EX to be connected off-camera up to 60 cm away. All of the Speedlite's controls and features can be used as usual. The Cord can be used with all EX-series, EZ-series, and E-series Canon Speedlites.









### Date Back DB-E2

This is an interchangeable camera back for the EOS-1V and EOS-3. It has a Quick Control Dial and date imprinting feature. The date can be imprinted on the photograph up to the year 2019. The following imprinting modes are provided: 1. Year, month, day, 2. Day, hour, minute, 3. Blank, 4. Month, day, year, and 5. Day, month, year. It cannot imprint the film ID.

# E-Series Dioptric Adjustment Lenses

One of ten E-series dioptric adjustment lenses (-4 to +3 diopters) with eyecup can be allached to the camera's eyepiece to further expand the dioptric correction range.

# Anti-Fog Eyeplece Ec

This eyepiece does not fog up in cold temperatures. The eyepiece glass is coaled with a special moisture-absorbing polymer which quickly absorbs moisture to dispel fogging of the glass.

The moisture absorbed evaporates naturally so the anti-fog effect is retained tor a long time.

Timer Remote Controller TC-80N3
 Attached with an 80-cm cord, this remote switch has four built-in functions: 1. Self-timer, 2. Interval timer, 3. Long-exposure timer, and 4. Shutter release count setting. The time can be set anywhere from 1 sec. to 99 hours, 59 min., 59 sec. Its connection plug for the EOS-1V has a quick-lock feature.



### Remote Switch RS-80N3

Remote switch with an 80-cm cord to prevent camera shake for super telephoto shots, macrophotography, and bulb exposures. You can use the remote switch to press the shutter button haltway or completely. It also has a shutter release lock. Its quicklock plug connects to the EOS-1V's remote control/data transfer terminal.



### Extension Cord ET-1000N3

Ten-meter extension cord for connecting the EOS-1V with Timer Remote Controller TC-80N3 or Remote Switch RS-80N3. For remote picturetaking situations.



# · Wireless Controller LC-4

Wireless controller effective up to 100 meters. It comes with a transmitter and receiver. The receiver's camera connection plug connects to the EOS-1V's remote control/data transfer terminal with quick-lock teature.



# Remote Switch Adapter RA-N3

This plug adapter enables old Remote Switches (RS-60T3, etc.) having a threaded, 3-pin plug to be connected to the EOS-1V's new remote control terminal.

# Major Specifications

0	Ţ	y	p	e
۰	п	У	μ	е

# Viewfinder

Magnilication .......0.72x (-1 diopter with 50mm lens at inlinity)

Built-in dioptric correction ....-3 · +1 diopter. (Standard diopter: -1 dpt)

vignetting with EF 1200mm t/5.6 or shorter lens)

Viewtinder Information.....(1) On the screen: Area AF ellipse, tocusing points, center spot metering circle

- (2) Below the screen: Manual exposure selling, AE lock, flash ready, unsuitable FE lock werning, high-speed sync (FP flash), shutter speed, FE lock (FEL), bulb (bubb), locusing point selection mode, depth-of-field AE (dep 1, 2), aperture, exposure compensation/flash exposure compensation amount, in-focus indicator.
- (3) Right of screen: Exposure level scale (±stops), exposure level indicator, tlash exposure level, trame counter, trame count down indicator.

Depth-of-tield Preview.....Enabled with depth-of-tield preview button Eyepiece shuller......Bulli-in

# Exposure Control

Melaring modes.....TTL max. aperture melering with a 21-zone silicon photocell.

- (1) Evaluative metering (linkable to any focusing point)
- (2) Partial metering (approx. 8.5% of viewlinder at center)
- (3) Center spot metering (approx. 2.4% of viewfinder at center)
- (4) Focusing point-linked spot metering (approx. 2.4% of viewtinder)
- (5) Multi-spot metering (Max. 8 spot metering entries)

(6) Centerweighted averaging metering

Exposure Control Methods ....(1) Program AE (shillable), (2) Shutter speed priority AE, (3)

Aperture priority AE, (4) Depth-of-tield AE (not shillable), (5) E-

TTL program tlash AE, 

A TTL program flash AE, 

TTL

	program flash AE,
Melering range	.EV 0-20 for all metering modes (at 20°C with 50mm l/1.4 lens, ISO 100)
ISO lilm speed range	JISO 6-6400 (Sel automalically with DX-coded lilm at ISO 25- 5000.)
Exposure compensation	(1) Autoexposure bracketing (AEB): ±3 stops in 1/3-stop increments.
	(2) Manual exposure compensation up to ±3 stops in 1/3-stop increments set with the Ouick Control Dial AEB and manual exposure compensation can be set together.
AE Lock	.(1) Auto AE lock: Operates in One-Shot AF mode with evaluative metering when locus is achieved.
	(2) Manual AE lock; AE lock bulton activates AE lock in all metering modes.
Multiple exposures	.Max. 9 multiple exposures per Irame (Cancelable and resettable at any time.). Cancels automatically after all multiple exposures are taken.
Autofocus	
	TTL-AREA-SIR with a CMOS sensor
V 1	Area AF with 45 locusing points
AF working range	EV 0-18 (at ISO 100)
Focusing modes	(1) One-Shot AF: Autolocus stops when locus is achieved,
	1.2
	resulting In AF lock. (2) Al Servo AF: Tracks subject movement up to the start of
	resulting In AF lock.
	resulting In AF lock. (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).
	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens
In-locus indicator	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only it AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2. Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be
	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2. Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be disabled with the Main Switch).
	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2. Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be disabled with the Main Switch). (1) Automatic selection: Focusing point camera-selected.
Focusing point selection	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2. Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be disabled with the Main Switch). (1) Automatic selection: Focusing point camera-selected.  (2) Manual selection: Focusing point manually-selected.
Focusing point selection	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2.  .Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be disabled with the Main Switch). (1) Automatic selection: Focusing point camera-selected.  (2) Manual selection: Focusing point manually-selected. Any single focusing point or 45-point automatic selection can be
Focusing point selection	resulting In AF lock.  (2) Al Servo AF: Tracks subject movement up to the start of exposure. No in-locus indicator (blinks at 8 Hz only if AF fails).  (3) Manual locusing: Enabled with the locusing ring when the lens locus mode is set to MF (or M). Electronic manual locusing during continuous shooting and exposure is enabled with PB-E2 and NP-E2. Flashing locusing point in viewfinder (can be disabled with a Custom Function), in-locus indicator, and beeper (can be disabled with the Main Switch). (1) Automatic selection: Focusing point camera-selected.  (2) Manual selection: Focusing point manually-selected.

the registered focusing point.

AF tocusing point indicatorSuperimposed tocusing point in viewtinder and also indicated on
LCD panel  AF-assist beamEmitted automatically by the attached EOS Speedlite when necessary.
• Shutter
TypeVertical-travel, tocal-plane shutter with all speeds electronicatly-controlled,
Shutter speeds30 to 1/8000 sec. in 1/3-stops, X-sync at 1/250 sec. Shutter release
Self-limer10-sec. or 2-sec. delay.
• Film Transport
Film loading
Film advance systemAutomatic film advance with built in motor.  (1) EOS-1 V: Single-frame and continuous shooting.  (2) EOS-1 V HS (w/Power Drive Booster PB-E2): Single-frame, low-speed continuous, high-speed continuous, and ultra-high
speed continuous (w/NP-E2).  Intrared lilmCompalibte
Film rewind systemAl the end of the roll, automatic film rewind with a built-in motor.  Midrotl rewind possible.
Film rewind time/noiseHigh-speed rewind: Approx. 4.5 sec. for 24-ex. tilm and approx. 8 sec. for 36-ex, film at 59 dB
Silent rewind
• Film ID Imprinting (w/standard camera back) Internation ImprintedAny number from 00 to 99 and tilm No. trom 001 to 999 Imprinting position and sizeFrame 0 on film leader, lext height approx. 1 mm Imprinting methodAfter tilm advances during Initial loading, a minilamp imprints a Iransparent LCD numerals on the tilm base. (Imprinting cannot be disabled.) Imprinting contirmationDuring imprinting, the ID mark lights on the LCD panel. Ambient temperature

When a picture is taken, the shooting data is automatically recorded in the built-in memory. The data can be later transferred

Shooting Data
System.....

	Data		computer for viewing and editing.			
	Data recorded	See page 11 cameia.	The data cannot be viewed or edited with the			
	Shooting data memory capacity		ndard number of data items, shooting data for 100 s. film can be stored.			
- Camera Specifications						
	Flash contacts	(1) Hot shoe	: X-sync direct contacts			
Flash contacts(1) Hot shoe: X-sync direct contacts (2) Right side bottom: PC terminal (threaded)						
	External flash system compatibility		ash, A-TTL autoflash, TTL autoflash			
	Custom Functions		-			
	Personal Functions3 Custom Function groups can also be registered.					
Remote control						
		dustproof ca	·			
	Power source		One 2CR5 lithium battery			
			HS (w/Power Drive Booster PB-E2): 8 size-AA			
			or Ni-MH Pack NP-E2 (sold separately)			
(3) Battery Pack BP-E1: 1 2CR5 lithium battery and 4 size-A						
batteries (size-AA lithium batteries cannot be used)						
Shooting capacityEOS-1 V: See page 20,						
		EOS-1 V HS	: See page 117.			
	Battery check	Automatic w	hen the Main Switch is turned on. Battery level			
		disptayed in	four levels (not including blank display) on LCD			
		ралеі.				
	Dimensions	EOS-1V:	161 (W) x 120.8 (H) x 70.8 (D) mm			
			6.3 (W) x 4.7 (H) x 2.8 (D) in.			
		EOS-1V HS	: 161 (W) x 164.3 (H) x 82.5 (D) mm			
			6.3 (W) x 6.4 (H) x 3.2 (D) in,			
	Weight	EOS-1V:	945 g / 33 oz (body only, excluding battery)			
		EOS-1V HS	: 1380 g / 48.7 oz (body only, excluding battery)			

<sup>·</sup> All the specifications above are based on Canon's testing and measuring standards.

<sup>·</sup> Specifications and physical appearance are subject to change without notice.

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

This equipment has been tested and found to comply with the limits tor a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful Interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. It this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on the user is encouraged to in the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry Canada.



The CE Mark is a Directive conformity mark of the European Community (EC)

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# Canon

Company information that is no longer current has been removed. If you have any questions regarding this model and are calling from the USA, please call 1 800 OK CANON

This Instructions booklet is current as of February 2000. For information on using the camera with system accessories introduced after this date, contact your nearest Canon Service Center.